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Subject:
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies Monthly Progress Report
Area 1 – Morrow Dam to Plainwell Dam (December 2009)

SEDIMENTS

Dear Jim:

Date:
January 15, 2010

Attached is the 34th monthly progress report for the Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site Supplemental Remedial Investigation/Feasibility Study (SRI/FS) – Area 1. This progress report is submitted as per Paragraph 37 of the February 2007 Administrative Settlement Agreement and Order on Consent (AOC) for Remedial Investigations/Feasibility Studies (Docket No. V-W-07-C-864), as well as Section 7.1 of the associated Statement of Work (SOW). If you have any questions, please do not hesitate to contact me.

Contact:
Michael J. Erickson, P.E.

Sincerely,

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#2

**MONTHLY PROGRESS REPORT FOR THE ALLIED PAPER, INC./PORTAGE CREEK/
KALAMAZOO RIVER SUPERFUND SITE SRI/FS
AREA 1 (MORROW DAM TO PLAINWELL DAM)**

REPORT #34, DECEMBER 2009

**PREPARED BY ARCADIS
JANUARY 15, 2010**

ON BEHALF OF GEORGIA-PACIFIC LLC

SUBMITTED TO

**JAMES SARIC, REMEDIAL PROJECT MANAGER
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #34, DECEMBER 2009

Significant Developments and Activities during the Period, Including Actions Undertaken Pursuant to the AOC and SOW

- On December 1, USEPA hosted a general Site update public meeting in Plainwell.
- On December 9, USEPA concurred with ARCADIS' August 17, 2009 letter requesting agreement to not implement specific contingent sampling tasks outlined in the Area 1 SRI/FS Work Plan.
- On December 9, ARCADIS submitted to USEPA a summary of groundwater sampling results for the Former Plainwell Impoundment Time Critical Removal Action (TCRA) Area collected during the first three quarters of 2009. This sampling is discussed in Section 3.4.6 of the Area 1 SRI/FS Work Plan.
- On December 10, ARCADIS forwarded to USEPA the groundwater and surface water elevations measured at the former Plainwell Impoundment TCRA area to date.
- On December 14, ARCADIS wrote to USEPA to confirm the modified submittal schedule for the *Multi-Area FS Technical Memorandum – Evaluation of Candidate Technologies and Testing Needs*.
- Georgia-Pacific LLC awaits USEPA's comments on the *Area 1 Work Plan Supplement: Baseline Ecological Risk Assessment Work Plan*.

Data Collected and Field Activities Conducted during the Period

- During the weeks of December 1 and 7, ARCADIS monitored the groundwater and surface water elevations twice a week to confirm groundwater flow towards the river in the Plainwell TCRA Area for the quarterly sampling (Table A). This sampling is discussed in Section 3.4.6 of the Area 1 SRI/FS Work Plan.
- On December 1 and 2, ARCADIS collected the supplemental sediment samples associated with the Crown Vantage area (Table B). Samples were sent to TestAmerica Laboratories, Inc. (TestAmerica) for PCB analysis (Table C).
- On December 9 and 10, ARCADIS collected bathymetric survey data in the former Plainwell Impoundment along 10 transects (Table D). This sampling is discussed in Section 3.4.5 of the Area 1 SRI/FS Work Plan.
- In December, ARCADIS, USEPA, and Michigan Department of Environmental Quality (MDEQ) discussed the collection and processing of "in-between" transects as part of the off-channel investigation.

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

REPORT #34, DECEMBER 2009

- On December 10, 14, 15, and 16, ARCADIS continued the off-channel areas investigation (Table E). Sediment samples were sent to TestAmerica for PCB analysis (Table F). Probing data is presented on Table G.
- During the week of December 14, ARCADIS sampled 15 wells and collected two surface water samples from the river in the Plainwell TCRA Area. Table H summarizes the samples that were sent to TestAmerica for analysis.

Laboratory Data Received during the Period

- On December 2 and 9, ARCADIS received from TestAmerica the remainder of the PCB analytical results for the surface sediment samples collected in October from Lake Allegan (Area 6) (Sample Delivery Groups [SDGs] KAL484 and KAL485) (Table I).
- On December 8 and 11, ARCADIS received from TestAmerica the PCB analytical results for the Lake Allegan sediment samples sent for PCB analysis on November 2 (SDG KAL488 and KAL487) (Table J).
- On December 9 and 14, ARCADIS received from TestAmerica the PCB analytical results for the hot spot assessment sediment samples that were collected in October (SDG KAL485 and KAL486) (Table K).
- On December 29, ARCADIS received from TestAmerica a portion of the PCB analytical results for the hot spot assessment sediment samples that were collected in November (SDG KAL493) (Table K).
- ARCADIS awaits from TestAmerica the PCB analytical results for the remainder of the sediment samples collected in November as part of the hot spot assessment (Table K).
- Validated data for the laboratory SDGs received in October are included in this monthly report. These data include the results for a portion of the PCB samples from the four outer focused step-out sediment cores from the FF-35 area (SDG KAL480) (Table L), the PCB results from the 15 groundwater and two surface water samples collected in the Plainwell TCRA Area in September (SDG KAL481) (Table M), and the PCB results for the sediment samples collected from Lake Allegan in May and analyzed by TestAmerica in August (SDGs KAL475, KAL477, and KAL476) (Table N). In accordance with Section 2.1 of the SOW, paper and electronic copies of these laboratory data are included as part of the monthly progress reports. Attachment A contains the validation reports for these data packages. The enclosed compact disk also contains the electronic data deliverable for these data.

Problems

- None

**Monthly Progress Report for the Allied Paper, Inc./Portage Creek/
Kalamazoo River Superfund Site SRI/FS – Area 1**

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Actions Taken to Correct Problems

- None

Developments Anticipated during the Next Two Reporting Periods

- Validated data for the laboratory SDGs received in November will be included in the January monthly report. These data include the PCB results for the remainder of the focused step-out sediment cores from the FF-35 area (SDG KAL479); the radionuclide analytical results for selected sediment samples collected from Lake Allegan (SDG Pb0188 and Pb0189); and a portion of the PCB results for the surface sediment samples collected in Lake Allegan in October (SDG KAL483).
- In January 2010, ARCADIS is scheduled to complete the off-channel area investigation.
- By January 4, 2010, ARCADIS is scheduled to submit a revised *Multi-Area FS Technical Memorandum – Evaluation of Candidate Technologies and Testing Needs* (Section 4.1 of SOW) and a revised *Multi-Area FS Technical Memorandum - Preliminary Remedial Technology Screening* (Section 1.2.2.1 of SOW) to USEPA for review.
- In January 2010, ARCADIS is scheduled to fillet the fish samples collected from locations throughout Areas 1 through 6 in October 2009 and forward the fillet samples to TestAmerica for PCB analysis. Currently, the fish samples are being held in frozen storage at the ARCADIS field office in Kalamazoo, Michigan.
- By February 15, 2010, ARCADIS is scheduled to submit to USEPA the Semi-Annual Progress Report for the period from August 2009 through January 2010. This submittal is discussed in Section 7.2 of the SOW.
- By February 15, 2010, ARCADIS is scheduled to submit to USEPA the Annual Area Work Report for Areas 2 through 7, as discussed in Section 1.1.1 of the SOW.

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #34, December 2009

Table A — Water Elevations — Wells and Staff Gauges — Plainwell TCRA Area

Location	Water Level Elevation / Date			
	12/1/09	12/3/09	12/7/09	12/9/09
Staff Gauges				
SG-1	707.03	707.10	707.15	707.24
SG-2	700.15	700.22	700.27	700.34
SG-3	-	-	-	-
SG-4	700.50	700.55	700.58	700.62
SG-5	702.08	702.15	702.17	702.20
Monitoring Wells				
MW-1	700.80	700.80	700.82	700.87
MW-2	700.99	701.00	701.01	701.06
MW-3	701.45	701.46	701.47	701.52
MW-4	701.93	701.93	701.95	702.00
MW-5	702.27	702.29	702.30	702.34
MW-6	700.86	700.87	700.88	700.88
MW-7	701.20	701.20	701.22	701.26
MW-8	701.58	701.59	701.60	701.65
MW-9	701.98	701.98	702.00	702.01
MW-10	703.76	703.77	703.77	703.87
MW-11	704.40	704.41	704.42	704.48
MW-12	705.60	705.61	705.61	705.75
MW-13	704.65	704.66	704.65	704.73
MW-14	705.02	705.02	705.02	705.10
MW-15	705.28	705.29	705.28	705.38
Groundwater - Surface Water Gradients (ft/ft)				
MW-5 - SG-5	0.19	0.14	0.13	0.14
MW-1 - SG-4	0.30	0.25	0.24	0.25

Notes:

Staff gauge SG-3 was not read because ARCADIS did not have access to the private property (Aggregate Industries) where SG-3 is located.

Positive gradient indicates groundwater flow to river.

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
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Table B — Sediment Cores Advanced in December 2009 — Crown Vantage Area

Date	Location	Water Depth (ft)	Probe (ft)	Penetration (ft)	Recovery (ft)	Depth Interval (in)	Description
12/1/09	CVT-A-1 ¹	1.3	2.2	-	1.8	0 - 5	Brown Silt, Organic (Wood, Leaves)
						5 - 11	Brown Silt, Fine Sand
						11 - 19	Brown Clay Silt
	CVT-A-2 ¹	3.5	1.5	-	1.5	0 - 2	Dark Brown Silt
						2 - 13	Gray Brown Silty Sand
						13 - 15	Gray Clay Silt
	CVT-A-3 ¹	0.6	1.0	-	0.6	0 - 7	Brown Fine to Medium Sand, Leave, Twigs on Top
						7 - 8	Dark Brown Silt with Some Sand
	CVT-B-3 ¹	1.0	1.0	-	0.9	0 - 7	Gray Brown Silt/Sand, Organics (Leaves)
						7 - 10	Gray Brown Silty Clay, Sand Mixed In
	CVT-C-3 ¹	0.5	2.0	-	1.4	0 - 4	Dark Brown Silty Sand, Organics
						4 - 8	Gray Silt Seam
						8 - 13	Brown Sand Silt
						13 - 16	Brown Sand, Some Silt
	CVT-D-3 ¹	1.5	1.1	-	1.0	0 - 8	Dark Brown Silty Sand with Organics
						8 - 10	Gray Clay Silt
	CVT-B-1	0.8	3.0	-	2.4	0 - 7	Dark Brown Fine Sand, Trace Organics (Roots, Twigs), Trace Silt
						7 - 15	Dark Brown Fine Sand, Trace Silt, Trace Organics (Leaves, Roots, Twigs), Trace Plastic
						15 - 17	Gray Silty Sand, Trace Organics (Roots, Shells)
						17 - 26	Trace Organics, Gray Fine Sand, Some Silt, Slight Odor
						26 - 30	Gray Sandy Silt, Trace Organics (Roots)
	CVT-B-2	1.8	3.0	-	2.9	0 - 9	Brown Silt, Trace Fine Sand, Organics (Leaves, Twigs)
						9 - 18	Gray Silt, Trace Fine Sand, Some Clay, Organics (Leaves, Twigs)
						18 - 25	Brown Fine to Medium Sand, Fine to Coarse Gravel
	CVT-C-2	2.4	1.5	-	1.5	0 - 5	Dark Brown/Gray Clay Silt, Organics (Leaves)
						5 - 14	Silt, Trace Fine Sand, Organics (Leaves) Dark Brown Clay
						14 - 17	Gray Clay, Silt, Trace Organics (Wood)
						17 - 18	Gray Fine to Medium Sand, Trace Clay, Trace Organics (Wood)

See Notes on Page 5.

Kalamazoo River Study Group
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Table B — Sediment Cores Advanced in December 2009 — Crown Vantage Area

Date	Location	Water Depth (ft)	Probe (ft)	Penetration (ft)	Recovery (ft)	Depth Interval (in)	Description
12/1/09 (Cont.)	CVT-D-1	2.0	3.1	-	2.6	0 - 4	Brown Sandy Silt, Trace Sand, Trace Organics (Leaves, Roots)
						4 - 12	Dark Brown Sandy Silt, Trace Organics (Leaves, Twigs)
						12 - 19	Dark Brown Silt, Trace Sand, Organics (Twigs, Leaves)
						19 - 27	Gray Silty Clay, Trace Organics (Root Fragments), Slight Odor
						27 - 30	Gray Brown Fine to Coarse Sand, Trace Organics (Shell Fragments)
	CVT-D-2	2.6	1.0	-	1.7	0 - 19	Dark Brown Silt, Trace Fine Sand, Organics (Roots, Twigs), 12-18" Trace Clay
						0 - 9	Dark Gray Silt, Trace Fine Sand, Organics (Wood, Leaves, Twigs)
						9 - 19	Dark Gray Brown Fine to Medium Sand
						0 - 5	Dark Gray Brown Silty Sand, Trace Organics (Root Fragments, Twigs)
12/2/09	CVT-F-1	1.1	5.9	3.7	2.3	5 - 27	Gray Clay Silt, Trace Sand, Trace Organics (Wood), 5-8" Thin Fine Sand Seam, Slight Odor, 1-2" at Bottom Trace Organics (Wood), Fine Gravel
						0 - 5	Dark Brown Silt Organics (Leaves, Twigs), Trace Medium Sand
	CVT-F-2	1.8	3.2	2.7	2.6	5 - 18	Gray Brown Fine to Medium Sand, Trace Gravel
						18 - 23	Gray Silty Clay, Trace Organics (Leaves), Has Odor
						23 - 28	Dark Gray Silty Clay, Trace Fine Sand
						28 - 31	Dark Gray Clay Silt, Trace Fine to Coarse Sand, Trace Fine to Medium Gravel, Organics (Wood, Shell Fragments)
						0 - 9	Dark Brown Silty Sand, Organics (Leaves, Wood)
	CVT-G-2	1.6	6.4	3.5	2.4	9 - 14	Dark Gray Silty Sand, Trace Fine to Medium Sand
						14 - 25	Gray Silty Clay, Trace Fine Sand, Trace Highly Degraded Organics (Leaves)
						25 - 28	Dark Brown Fine Sand, Trace Fine to Medium Gravel, Trace Medium to Coarse Sand
						0 - 4	Dark Brown to Black/Gray Silty Sand, Organics (Leaves, Twigs)
1/15/2010	CVT-H-1	0.4	4.0	2.9	2.2	4 - 8	Brown Silty Sand, Organics (Leaves, Wood, Shells)
						8 - 19	Dark Brown Fine to Medium Gravel, Some Silt, Fine to Coarse Sand, Organics (Shell Fragments, Wood)
						13 - 15	Gray Seam of Silty Sand, Piece of Rubber in Seam, Piece of Foil in Seam
						19 - 26	Gray Silty Clay, Organics (Large Chunk of Wood)

See Notes on Page 5.

Kalamazoo River Study Group
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Table B — Sediment Cores Advanced in December 2009 — Crown Vantage Area

Date	Location	Water Depth (ft)	Probe (ft)	Penetration (ft)	Recovery (ft)	Depth Interval (in)	Description
12/2/09 (Cont.)	CVT-H-2	1.0	3.5	3.6	2.9	0 - 4	Dark Brown Clay Sand, Organics (Shell Fragments, Leaves, Wood) Small Pieces of Foil
						4 - 6	Gray Clay, Silt, Trace Organics (Wood), Slight Odor
						6 - 17	Gray Brown Fine Sand, Trace Silt, Organics (Twigs, Root Fragments, Shells) Pieces of Tin Foil
						17 - 29	Brown Fine to Medium Sand, Trace Fine Gravel, Trace Organics (Wood, Shell Fragments)
						29 - 33	Light Gray Fine to Coarse Gravel, Fine to Coarse Sand, Broken Gravel at Bottom, Trace Shells
	CVT-08-01	0.1	1.9	2.2	1.7	0 - 4	Brown Fine Sand, Trace Organics (Shells, Leaves, Wood)
						4 - 8	Brown Silty Sand, Organics (Wood, Shell Fragments)
						8 - 11	Gray Brown Sandy Silt, Shell Fragments
						11 - 16	Brown Well Grated Fine to Coarse Gravel, Fine to Coarse Sand
						16 - 21	Gray Brown Fine to Coarse Gravel, Fine to Coarse Sand; Large Cobble Stone at Bottom of Core
	CVT-08-03	1.6	2.8	2.5	2.3	0 - 2	Dark Gray Silt, Highly Degraded Organics
						2 - 8	Dark Gray Fine to Medium Sand, Organics (Twigs, Shell Fragments), Slight Odor
						8 - 14	Dark Gray Silty Sand, Organics (Wood, Twigs, Shell Fragments)
						14 - 24	Gray Fine to Coarse Sand, Fine to Medium Gravel, Slight Odor
						24 - 27	Dark Gray Grading to Light Gray Fine to Coarse Sand, Fine to Medium Gravel, Trace Shell Fragments
	CVT-01-04	3.0	0.7	1.2	0.9	0 - 2	Dark Brown Sandy Silt, Vegetation at Top, Leaf Litter, Small Piece of Tin Foil at Top
						2 - 4	Gray Silty Clay, Some Wood, Has Odor
						4 - 9	Dark Gray Fine to Coarse Sand, Fine to Coarse Gravel
	CVT-03-03	2.8	1.2	1.2	0.8	0 - 2	Dark Brown Fine Sand, Trace Silt, Vegetation, Broken Shell Fragments, Soil-Like Material
						2 - 9	Gray Fine to Coarse Sand, Fine to Coarse Gravel, Some Cementation Around Larger Pieces of Gravel

See Notes on Page 5.

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Table B — Sediment Cores Advanced in December 2009 — Crown Vantage Area

Date	Location	Water Depth (ft)	Probe (ft)	Penetration (ft)	Recovery (ft)	Depth Interval (in)	Description
12/2/09 (Cont.)	CVT-03-05	0.9	2.2	2.0	1.9	0 - 3	Brown Grading to Dark Brown Fine Sand, Organics (Wood, Twigs, Root Fragments)
						3 - 23	Gray Clay Silt, Strong Odor, Trace Organics (Twigs) 5-8" Brown Fine Sand Seam
	CVT-04-01	0.9	2.0	2.0	1.7	0 - 5	Dark Brown Silty Sand, Highly Degraded Organics (Leaves, Twigs, Bark)
						5 - 12	Gray Brown Silty Sand, Organics (Leaves, Shells, Twigs, Wood), Slight Odor
						12 - 19	Gray Brown Fine Sand, Fine to Coarse Gravel
	CVT-04-03	2.4	1.6	1.8	1.6	0 - 8	Dark Brown Silt, Trace Fine Sand, highly Degraded Organics (Leaves, Twigs) Vegetation
						8 - 16	Gray Silty Clay, Strong Odor, Trace Fine Sand
						16 - 19	Brown Fine to Medium Sand, Fine to Coarse Gravel
	CVT-05-03	2.5	2.0	2.0	1.7	0 - 8	Dark Brown Silt, Organics (Leaves, Twigs)
						8 - 16	Gray Clay Silt, Has Odor, From 10-11" Fine Sand Seam with Highly Degraded Organics
						16 - 21	Dark Gray Fine to Medium Sand, Fine to Coarse Gravel, Trace Silt, Has Odor
CVT-05-05		1.2	1.5	1.3	1.3	0 - 12	Gray Brown Fine Sand, Some Silt, Root Material with Highly Degraded Organics, Wood Throughout, Slight Odor (Peat)
						12 - 15	Gray Clay Silt, Fine to Coarse Gravel, Strong Odor
CVT-E-2 ¹		1.8	4.0	3.0	3.4	0 - 5	Brown Medium to Coarse Sand, Trace Fine Gravel, Some Organics
						5 - 24	Gray Brown Fine to Medium Sand, Trace Coarse Gravel
						24 - 26	Gray Clay Silt
						26 - 29	Dark Brown Fine Sand Seam, Trace Silt
						29 - 34	Gray Brown Silty Sand, Trace Fine Gravel
						34 - 38	Dark Brown Silty Sand
CVT-E-3 ¹		0.7	3.3	-	2.0	0 - 8	Dark Brown Sandy Silt, Some Organics
						8 - 16	Brown Clay Silt
						16 - 24	Gray Brown Silty Sand
						24 - 31	Brown Fine to Coarse Sand, Trace Fine Gravel

See Notes on Page 5.

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Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
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Table B — Sediment Cores Advanced in December 2009 — Crown Vantage Area

Date	Location	Water Depth (ft)	Probe (ft)	Penetration (ft)	Recovery (ft)	Depth Interval (in)	Description
12/2/09 (Cont.)	CVT-E-1 ¹	1.2	4.8	4.6	3.7	0 - 19	Dark Brown Silty Sand, Some Organics
						19 - 29	Gray Clay Silt
						29 - 39	Grayish Brown Fine to Medium Sand, Trace Silt
						39 - 42	Dark Brown Silty Sand
	CVT-F-3 ¹	0.4	1.6	1.5	1.2	0 - 7	Dark Brown Silty Sand, Organics
						7 - 11	Gray Brown Fine Sand, Gray Smearing in Interval, Could Not Determine Through Lexan
						11 - 13	Gray Brown Fine to Coarse Sand, Removed Bottom Cap, No Odor, No Gray Seam at Bottom
	CVT-G-3 ¹	1.0	2.0	2.0	1.7	0 - 6	Dark Brown Fine Sand, Trace Fine to Medium Gravel
						6 - 18	Gray Brown Fine Sand
						18 - 19	Gray Brown Fine to Medium Sand, Fine to Medium Gravel
	CVT-H-3 ¹	0.3	3.0	2.9	1.8	0 - 16	Gray Brown Fine Silty Sand
						16 - 22	Gray Brown Silty Sand
	CVT-I-1 ¹	0.5	3.5	3.4	2.6	0 - 13	Dark Brown Fine to Medium Sand, Trace Organics (Wood, Shell Fragments)
						13 - 25	Gray Brown Fine to Coarse Sand, Small Pieces of Foil at 22", Silty Sand Layer 22-25"
						25 - 33	Gray Brown Sandy Silt
	CVT-I-2 ¹	0.3	3.7	3.6	2.5	0 - 6	Gray Brown Fine to Coarse Sand
						6 - 17	Dark Gray Brown Silty Sand
						17 - 30	Gray Brown Silty Sand, less Silt in Bottom Interval
	CVT-I-3 ¹	0.4	4.5	3.0	2.3	0 - 6	Brown Silty Sand
						6 - 20	Gray Brown Clay Silt, Some Sand
						20 - 27	Gray Brown Fine to Coarse Sand, Fine Gravel

Notes:

All samples collected using 3" Lexan.

¹Sample retained in frozen storage in Kalamazoo field office.

Kalamazoo River Study Group
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Table C — Sediment Samples Collected in December 2009 — Crown Vantage Area

Location	Sample ID	Depth Interval (in)
CVT-B-1	K56645	0 - 2
CVT-B-1	K56646	2 - 7
CVT-B-1	K56647	7 - 12
CVT-B-1	K56648	12 - 15
CVT-B-1	K56649	15 - 17
CVT-B-1	K56650	17 - 26
CVT-B-1	K56651	26 - 30
CVT-B-2	K56652	0 - 2
CVT-B-2	K56653	2 - 6
CVT-B-2	K56654	6 - 12
CVT-B-2	K56655 ¹	12 - 19
CVT-B-2	K56656 [K56657]	19 - 25
CVT-C-2	K56658	0 - 2
CVT-C-2	K56659	2 - 6
CVT-C-2	K56660	6 - 12
CVT-C-2	K56661	12 - 15
CVT-C-2	K56662	15 - 18
CVT-D-1	K56663	0 - 2
CVT-D-1	K56664	2 - 6
CVT-D-1	K56665	6 - 12
CVT-D-1	K56666	12 - 19
CVT-D-1	K56667	19 - 27
CVT-D-1	K56668	27 - 30
CVT-D-2	K56669	0 - 2
CVT-D-2	K56670	2 - 6
CVT-D-2	K56671	6 - 12
CVT-D-2	K56672	12 - 19
CVT-F-1	K56673	0 - 2
CVT-F-1	K56674	2 - 6
CVT-F-1	K56675 [K56678]	6 - 12
CVT-F-1	K56676 ¹	12 - 24
CVT-F-1	K56677	24 - 27
CVT-F-2	K56679	0 - 2
CVT-F-2	K56680	2 - 6
CVT-F-2	K56681	6 - 12
CVT-F-2	K56682	12 - 17
CVT-F-2	K56683	17 - 23
CVT-F-2	K56684	23 - 28
CVT-F-2	K56685	28 - 31
CVT-G-2	K56686	0 - 2
CVT-G-2	K56687 [K56692]	2 - 6
CVT-G-2	K56688	6 - 9
CVT-G-2	K56689	9 - 12
CVT-G-2	K56690 ¹	12 - 24
CVT-G-2	K56691	24 - 28
CVT-H-1	K56693	0 - 2

See Notes on Page 3.

Kalamazoo River Study Group
Allied Paper, Inc./Portage Creek/Kalamazoo River Superfund Site
Supplemental Remedial Investigations/Feasibility Studies
Monthly Report #34, December 2009

Table C — Sediment Samples Collected in December 2009 — Crown Vantage Area

Location	Sample ID	Depth Interval (in)
CVT-H-1	K56694	2 - 6
CVT-H-1	K56695	6 - 12
CVT-H-1	K56696	12 - 15
CVT-H-1	K56697	15 - 19
CVT-H-1	K56698	19 - 26
CVT-H-2	K56699	0 - 2
CVT-H-2	K56700	2 - 6
CVT-H-2	K56701	6 - 12
CVT-H-2	K56702	12 - 18
CVT-H-2	K56703 ¹	18 - 29
CVT-H-2	K56704	29 - 33
CVT-08-01	K56705	0 - 2
CVT-08-01	K56706	2 - 6
CVT-08-01	K56707	6 - 11
CVT-08-01	K56708	11 - 15
CVT-08-01	K56709	15 - 21
CVT-08-03	K56710	0 - 2
CVT-08-03	K56711	2 - 6
CVT-08-03	K56712	6 - 12
CVT-08-03	K56713	12 - 18
CVT-08-03	K56714	18 - 24
CVT-08-03	K56715	24 - 27
CVT-01-04	K56716	0 - 2
CVT-01-04	K56717	2 - 5
CVT-01-04	K56718	5 - 9
CVT-03-03	K56719	0 - 2
CVT-03-03	K56720	2 - 6
CVT-03-03	K56721	6 - 9
CVT-03-05	K56722	0 - 2
CVT-03-05	K56723	2 - 5
CVT-03-05	K56724	5 - 8
CVT-03-05	K56725 ¹ [K56726]	8 - 23
CVT-04-01	K56727	0 - 2
CVT-04-01	K56728	2 - 6
CVT-04-01	K56729	6 - 12
CVT-04-01	K56730	12 - 19
CVT-04-03	K56731	0 - 2
CVT-04-03	K56732	2 - 6
CVT-04-03	K56733	6 - 9
CVT-04-03	K56734	9 - 16
CVT-04-03	K56735	16 - 19
CVT-05-03	K56736	0 - 2
CVT-05-03	K56737	2 - 6
CVT-05-03	K56738	6 - 12
CVT-05-03	K56739	12 - 16
CVT-05-03	K56740	16 - 21

See Notes on Page 3.

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Table C — Sediment Samples Collected in December 2009 — Crown Vantage Area

Location	Sample ID	Depth Interval (in)
CVT-05-05	K56741	0 - 2
CVT-05-05	K56742	2 - 6
CVT-05-05	K56743	6 - 12
CVT-05-05	K56744	12 - 15

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

Samples sent to TestAmerica Laboratories, Inc. for PCB, TOC, and grain size analysis.

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Table D — Plainwell Impoundment Transects

Date	Station	Water Depth (ft)	Probe Depth (ft)	Survey	Surveyed Water Elevation (ft, NGVD 1929)	Surveyed Sediment Elevation (ft, NGVD 1929)	Notes/Description
12/10/09	T10-EWA-A	-	-	-	706.1	-	-
	T10-01	0.3	0.1	0+00	-	705.9	2 ft EOW, Hard Gravel Bottom
	T10-02	2.2	0.1	0+10	-	704.0	Hard Gravel Bottom
	T10-03	3.0	0.2	0+25	-	703.2	Coarse Sand Over Gravel
	T10-04	2.4	0.1	0+40	-	703.8	Coarse Sand Over Gravel
	T10-05	2.4	0.1	0+55	-	703.8	SAA
	T10-06	3.0	0.1	0+70	-	703.2	SAA
	T10-07	2.8	0.0	0+85	-	703.4	Hard Gravel
	T10-08	2.9	0.0	0+100	-	703.3	SAA
	T10-09	2.5	0.1	0+115	-	703.7	Coarse Sand and Gravel
	T10-10	2.0	0.2	0+130	-	704.2	Coarse Sand and Gravel
	T10-11	1.4	0.5	0+145	-	704.8	Coarse Sand and Gravel
	T10-12	1.4	0.5	0+160	-	704.8	SAA
	T10-13	1.9	0.5	0+175	-	704.3	SAA
	T10-14	2.1	0.3	0+190	-	704.1	SAA
	T10-15	2.2	0.1	0+205	-	704.0	Coarse Sand and Gravel Over RRR
	T10-16	1.2	0.0	0+210	-	705.0	RRR
	T10-EWA-B	-	-	-	706.3	-	-
	T09-EWA-A	-	-	-	704.3	-	-
	T09-01	-	-	0+00	-	707.3	Falls in Restoration Material
	T09-02	-	-	0+13	-	706.2	Same
	T09-03	-	-	0+26	-	704.8	2 ft EOW, Same
	T09-04	2.4	0.1	0+39	-	702.1	Coarse Sand/Rock
	T09-05	2.2	0.0	0+52	-	702.3	Coarse Sand/Rock
	T09-06	2.8	0.0	0+65	-	701.7	Coarse Sand/Rock
	T09-07	2.7	0.1	0+78	-	701.8	Coarse Sand/Rock
	T09-08	2.7	0.0	0+91	-	701.8	Rock
	T09-09	3.9	0.3	1+04	-	700.6	Coarse Sand/Rock
	T09-10	3.5	0.0	1+17	-	701.0	Coarse Sand/Rock
	T09-11	4.0	0.1	1+30	-	700.5	Coarse Sand/Rock
	T09-12	4.1	1.0	1+43	-	700.4	Silt/Fine Sand/Rock

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Table D — Plainwell Impoundment Transects

Date	Station	Water Depth (ft)	Probe Depth (ft)	Survey	Surveyed Water Elevation (ft, NGVD 1929)	Surveyed Sediment Elevation (ft, NGVD 1929)	Notes/Description
12/10/09	T09-13	2.8	1.0	1+56	-	701.7	Silt/Fine Sand/Rock
	T09-14	0.9	0.2	1+69	-	703.6	Fine Sand/Rock
	T09-15	-	-	1+82	-	-	TOB
	T09-EWA-B	-	-	-	704.6	-	-
	T08-EWA-A	-	-	-	703.0	-	-
	T08-01	-	-	0+12	-	704.2	Restoration Material TOB
	T08-02	2.1	1.9	0+24	-	701.0	Silt/Hard Bottom
	T08-03	4.2	0.0	0+36	-	698.9	Rock
	T08-04	2.1	1.0	0+48	-	701.0	Silt/Rock
	T08-05	1.7	0.5	0+60	-	701.4	Silt/Rock
	T08-06	1.8	0.8	0+72	-	701.3	Silt/Sand/Rock
	T08-07	2.8	0.1	0+84	-	700.3	Gravel/Rock
	T08-08	2.3	0.5	0+96	-	700.8	Coarse Sand/Rock
	T08-09	1.8	0.2	1+08	-	701.3	Coarse Sand/Rock
	T08-10	1.9	0.9	1+20	-	701.2	Coarse Sand/Rock
	T08-11	2.0	0.2	1+32	-	701.1	Coarse Sand/Rock
	T08-12	1.9	0.3	1+44	-	701.2	Coarse Sand/Rock
	T08-13	3.2	0.2	1+56	-	699.9	Coarse Sand/Rock
	T08-14	2.0	0.0	1+68	-	701.1	RRR
	T08-15	-	-	1+80	-	-	Restoration Material RRR TOB
	T08-EWA-B	-	-	-	703.3	-	-
	T07-EWA-A	-	-	-	702.4	-	-
	T07-01	-	-	0+11	-	707.2	TOB RRR
	T07-02	1.3	1.2	0+22	-	700.8	Silt Over Hard Bottom
	T07-03	1.9	0.5	0+33	-	700.2	SAA
	T07-04	2.2	0.5	0+44	-	699.9	Silt Over Gravel
	T07-05	2.7	0.3	0+55	-	699.4	Silt Over Hard Bottom
	T07-06	3.3	0.2	0+66	-	698.8	Coarse Sand Over Gravel
	T07-07	3.5	0.1	0+77	-	698.6	SAA
	T07-08	3.5	0.0	0+88	-	698.6	Hard Gravel
	T07-09	3.1	0.2	0+99	-	699.0	Coarse Sand Over Hard Bottom

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Date	Station	Water Depth (ft)	Probe Depth (ft)	Survey	Surveyed Water Elevation (ft, NGVD 1929)	Surveyed Sediment Elevation (ft, NGVD 1929)	Notes/Description
12/10/09	T07-10	3.4	1.2	0+110	-	698.7	Silt/Clay Over Gravel
	T07-11	3.3	0.0	0+121	-	698.8	Gravel Over Hard Bottom
	T07-12	3.0	0.0	0+132	-	699.1	SAA
	T07-13	2.6	0.0	0+143	-	699.5	SAA
	T07-14	2.0	6.0	0+154	-	700.1	Fine Sand/Silt Over Hard Bottom
	T07-15	-	-	TOB	-	-	Erosion Control Matting
	T07-EWA-B	-	-	-	702.2	-	-
	T06-EWA-A	-	-	-	701.7	-	-
	T06-01	-	-	0+11	-	704.5	Restoration Material
	T06-02	0.9	3.0	0+22	-	701.0	Clayey Silt Hard Bottom
	T06-03	3.3	0.0	0+33	-	698.2	Hard Bottom
	T06-04	5.0	0.2	0+44	-	696.5	Coarse Sand Over Gravel
	T06-05	2.3	1.8	0+55	-	699.2	Clayey Silt Over Hard Bottom
	T06-06	2.5	1.1	0+66	-	699.0	SAA
	T06-07	3.0	0.8	0+77	-	698.5	SAA
	T06-08	3.4	0.2	0+88	-	698.1	SAA
	T06-09	2.8	0.6	0+99	-	698.7	SAA
	T06-10	2.5	0.6	0+110	-	699.0	SAA
	T06-11	3.1	0.2	0+121	-	698.4	Coarse Sand Over Gravel
	T06-12	3.5	-	0+132	-	698.0	Hard Bottom
	T06-13	3.5	-	0+143	-	698.0	SAA
	T06-14	3.4	-	0+154	-	698.1	SAA
	T06-15	0.9	2.0	0+165	-	700.6	Clayey Silt Over Hard Bottom
	T06-EWA-B	-	-	-	701.6	-	-
	T05-EWA-A	-	-	-	701.2	-	-
	T05-01	-	-	0+10	-	-	TOB
	T05-02	-	-	0+20	-	704.4	TOB
	T05-03	0.8	2.2	0+30	-	700.2	Clayey Silt Over Rock
	T05-04	2.1	1.7	0+40	-	698.9	"Same"
	T05-05	3.2	1.0	0+50	-	697.8	"Same"
	T05-06	4.8	0.2	0+60	-	696.2	Gravel

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Date	Station	Water Depth (ft)	Probe Depth (ft)	Survey	Surveyed Water Elevation (ft, NGVD 1929)	Surveyed Sediment Elevation (ft, NGVD 1929)	Notes/Description
12/10/09	T05-07	5.7	0.3	0+70	-	695.3	Gravel
	T05-08	4.9	1.3	0+80	-	696.1	Gravel
	T05-09	4.3	0.0	0+90	-	696.7	Gravel Over Hard Bottom
	T05-10	4.6	0.0	1+00	-	696.4	Gravel Over Hard Bottom
	T05-11	4.1	0.0	1+10	-	696.9	Gravel Over Hard Bottom
	T05-12	4.6	0.0	1+20	-	696.4	Gravel Over Hard Bottom
	T05-13	3.5	0.3	1+30	-	697.5	Gravel
	T05-14	2.5	2.0	1+40	-	698.5	Coarse Sand/Gravel
	T05-15	1.5	3.0	1+50	-	699.5	Clayey Silt/Hard Bottom
	T05-EWA-B	-	-	-	701.0	-	-
12/9/09	T04-EWA-A	-	-	-	700.9	-	-
	T04-01	-	-	0+10	-	705.0	Restoration Materials
	T04-02	-	-	0+20	-	702.1	Restoration Materials
	T04-03	0.1	5.2	0+30	-	701.0	Clayey Silt Over Hard Bottom
	T04-04	2.0	2.5	0+40	-	699.1	SAA
	T04-05	3.0	0.6	0+50	-	698.1	Clayey Silt Over Coarse Sand/Gravel
	T04-06	4.7	0.6	0+60	-	696.4	Clayey Silt Over Hard Bottom
	T04-07	6.0	0.4	0+70	-	695.1	SAA
	T04-08	6.9	0.6	0+80	-	694.2	Coarse Sand Over Gravel
	T04-09	5.4	1.5	0+90	-	695.7	Clayey Silt Over Hard Bottom
	T04-10	3.7	3.2	0+100	-	697.4	SAA
	T04-11	5.9	2.5	0+110	-	695.2	SAA
	T04-12	5.4	1.7	0+120	-	695.7	SAA
	T04-13	2.2	4.0	0+130	-	698.9	SAA
	T04-14	-	-	0+140	-	-	Restoration Materials
	T04-15	-	-	0+150	-	-	Restoration Materials
	T04-EWA-B	-	-	-	701.0	-	-
	T03-EWA-A	-	-	-	701.2	-	-
	T03-01	-	-	0+11	-	704.9	RRR
	T03-02	-	-	0+22	-	702.8	RRR
	T03-03	1.8	-	0+33	-	699.2	RRR

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Date	Station	Water Depth (ft)	Probe Depth (ft)	Survey	Surveyed Water Elevation (ft, NGVD 1929)	Surveyed Sediment Elevation (ft, NGVD 1929)	Notes/Description
12/9/09	T03-04	7.0	1.1	0+44	-	694.0	Clayey Silt Over Coarse Sand/Gravel
	T03-05	7.8	0.4	0+55	-	693.2	SAA
	T03-06	7.0	0.4	0+66	-	694.0	Coarse Sand/Gravel
	T03-07	7.0	0.1	0+77	-	694.0	SAA
	T03-08	6.9	0.6	0+88	-	694.1	SAA
	T03-09	6.0	0.8	0+99	-	695.0	SAA
	T03-10	6.1	0.2	0+110	-	694.9	SAA
	T03-11	5.5	0.1	0+121	-	695.5	SAA
	T03-12	5.9	0.6	0+132	-	695.1	Clayey Silt Over Sand/Gravel
	T03-13	3.3	1.5	0+143	-	697.7	Clayey Silt Over Hard Bottom
	T03-14	-	-	0+154	-	-	Restoration Materials (Elm)
	T03-15	-	-	0+165	-	-	Restoration Materials (Elm)
	T03-EWA-B	-	-	-	700.9	-	-
	T02-EWA-A	-	-	-	700.6	-	-
	T02-01	-	-	0+11	-	703.2	RRR
	T02-02	0.4	-	0+22	-	700.3	RRR
	T02-03	4.8	0.2	0+33	-	695.9	Rock
	T02-04	0.6	3.0	0+44	-	699.9	Edge of Prism Clay/Silt
	T02-05	0.0	3.7	0+55	-	700.7	Top of Prism, No Bottom
	T02-06	1.0	2.5	0+66	-	699.7	Edge of Prism, Clay/Silt Hard Bottom
	T02-07	1.7	2.3	0+77	-	699.0	Edge of Prism, Clay/Silt Coarse Sand, Gravel
	T02-08	1.9	1.8	0+88	-	698.8	Edge of Prism, Clay/Silt Coarse Sand, Gravel
	T02-09	3.1	1.0	0+99	-	697.6	Clay/Silt Coarse Sand, Gravel
	T02-10	3.1	0.9	1+10	-	697.6	Clay/Silt Coarse Sand, Gravel
	T02-11	3.0	1.3	1+21	-	697.7	Clay/Silt Coarse Sand, Gravel
	T02-12	5.5	0.0	1+32	-	695.2	Hard Bottom
	T02-13	5.3	0.2	1+43	-	695.4	Coarse Sand, Rock
	T02-14	3.3	2.0	1+54	-	697.4	Clay/Silt, Hard Bottom
	T02-15	1.5	3.0	1+65	-	699.2	Clay/Silt, Hard Bottom
	T02-EWA-B	-	-	-	700.6	-	-
	T01-EWA-A	-	-	-	700.2	-	-

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Date	Station	Water Depth (ft)	Probe Depth (ft)	Survey	Surveyed Water Elevation (ft, NGVD 1929)	Surveyed Sediment Elevation (ft, NGVD 1929)	Notes/Description
12/9/09	T01-01	2.5	-	0+10	-	699.0	RRR
	T01-02	3.6	-	0+20	-	697.9	RRR
	T01-03	5.5	0.5	0+30	-	698.0	Clay/Silt, Gravel
	T01-04	2.1	1.4	0+40	-	699.4	Clay/Silt, Gravel
	T01-05	1.0	2.5	0+50	-	700.5	Clay/Silt, Gravel
	T01-06	1.4	2.5	0+60	-	700.1	Clay/Silt, Gravel
	T01-07	1.5	2.6	0+70	-	700.0	Clay/Silt, Gravel
	T01-08	2.2	2.0	0+80	-	699.3	Clay/Silt, Gravel
	T01-09	1.6	2.8	0+90	-	699.9	Clay/Silt, Gravel
	T01-10	3.2	1.0	1+00	-	698.3	Clay/Silt, Gravel
	T01-11	2.4	2.4	1+10	-	699.1	Clay/Silt, Gravel
	T01-12	2.0	2.8	1+20	-	699.5	Clay/Silt, Gravel
	T01-13	1.8	3.0	1+30	-	699.7	Clay/Silt, Gravel
	T01-14	1.8	3.0	1+40	-	699.7	Clay/Silt, Gravel
	T01-15	2.0	2.8	1+50	-	699.5	Clay/Silt, Gravel
	T01-16	2.8	2.4	1+60	-	698.7	Clay/Silt, Gravel
	T01-17	6.2	1.6	1+70	-	695.3	Gravel
	T01-18	3.9	1.2	-	-	697.6	Clay/Silt, Rock
	T01-EWA-B	-	-	-	700.4	-	-

Notes:

SAA = Same as above.

RRR = River run rock.

TOB = Top of bank.

EOW = Edge of water.

Elevations based on the National Geodetic Vertical Datum of 1929 obtained using GPS methods.

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Table E — Sediment Cores Advanced in December 2009 — Off-Channel Areas

Date	Transect	Location	Water (ft)	Probe (ft)	Penetration (ft)	Notes	Depth Interval (in)	Description									
12/10/09	S-PC2-4.5	OCA14-4.5-01 (0+00)	0.0	3.0	3.8	For visual characterization only.	0 - 4	Dark Brown Organics (Roots and Leaf Litter) Some Silt									
							4 - 8	Dark Orange Brown Clayey Silt, Little Organics (Root)									
							8 - 10	Gray Brown Clayey Silt, Some Fine Sand, Trace Organics (Roots)									
	OCA14-4.5-02 (0+24)						10 - 15	Dark Gray Clayey Silt, Some Fine Sand, Trace Organics (Shells)									
							15 - 30	Dark Gray Grading to Gray, Fine Sand, Little Silt, Trace Organics (Roots and Shells)									
	OCA14-4.5-03 (0+48)						0 - 4	Dark Brown Clayey Silt, Little Organics (Roots and Shells)									
							4 - 5	Orange Brown Fine Sand, Little Medium Sand, Trace Clayey Silt									
							5 - 10	Gray Fine Sand, Little Medium Sand, Trace Organics (Shells)									
							10 - 24	Dark Gray Brown Clayey Silt, Trace Organics (Roots and Shells)									
							24 - 25	Dark Gray Brown Gravel, Little Coarse Sand, Trace Fine Sand, Trace Silt									
							S-PC2-5.5						0 - 4	Dark Brown Silt, Some Organics (Roots and Shells and Leaf Litter)			
													4 - 12	Dark Orange Brown Clayey Silt, Little Organics (Root)			
													12 - 16	Gray Silt Around Marl, Trace Gravel			
	OCA14-5.5-01 (0+00)						0 - 5	Dark Brown Organics (Roots, Wood, Leaf Litter) Some Silt									
							5 - 10	Dark Brown Clayey Silt, Some Organics (Roots), Trace Fine Sand									
							OCA14-5.5-02 (0+20)						10 - 14	Orange Brown Clayey Silt, Some Fine Sand, Trace Organics (Roots, Shells)			
													14 - 19	Gray to Dark Gray Fine Sand, Trace Organics (Roots, Shells)			
													0 - 3	Dark Brown Clayey Silt, Trace Organics (Leaves, Shells) Trace Fine Sand			
													3 - 10	Light Orange Brown Fine Sand, Trace Clayey Silt, Trace Organics (Shells)			
													10 - 24	Dark Gray Black Clayey Silt, Trace Fine Sand, Trace Organics (Roots, Shells)			
							OCA14-5.5-03 (0+46)						0 - 5	Dark Brown Clayey Silt, Some Organics (Roots, Leaf Litter), Trace Fine Sand			
													5 - 8	Brown Clayey Silt, Some Fine Sand, Trace Organics (Roots)			
													8 - 22	Gray Brown Grading to Dark Gray Brown Clayey Silt, Trace Organics (Roots and Shells)			
													22 - 23	Gray Fine Sand, Trace Organics (Roots, Shells), Trace Silt			
													0 - 11	Brown Clayey Silt, Little Organics (Roots, Shells), Trace Fine Sand			
S-PC2-05							OCA14-05-01 (0+00)						11 - 15	Brown Clayey Silt, Some Fine Sand, Trace Organics (Roots, Shells)			
													15 - 19	Dark Gray Fine Sand, Trace Organics (Wood, Shells)			
	OCA14-05-02 (0+10)						0 - 4	Dark Brown Clayey Silt, Some Organics (Roots, Vegetation, Shells)									
							OCA14-05-02 (0+10)						4 - 7	Dark Brown Clayey Silt, Trace Fine Sand, Trace Organics (Roots)			
													7 - 11	Brown Clayey Silt, Interbedded Light Brown Fine Sand, Trace Organics (Roots)			
													11 - 19	Dark Brown Black Clayey Silt, Trace Organics (Roots, Shells), Trace Fine Sand, 2" Void at Bottom of Core			
													0 - 14	Brown Grading to Dark Gray Clayey Silt, Little Organics (Roots, Shells), Trace Fine Sand			
							OCA14-05-03 (0+20)						14 - 15	Dark Gray Clayey Silt, Little Coarse Sand, Trace Gravel, Trace Shells			
													0 - 2	Brown Clayey Silt, Little Organics (Roots, Shells, Leaves)			
													2 - 15	Brown Grading to Dark Gray/Black Clayey Silt, Little Organics (Roots, Shells), Trace Fine Sand			
OCA14-05-04 (0+30)							OCA14-05-04 (0+30)						0 - 7	Brown Clayey Silt, Little Organics (Roots, Leaves, Shells), Trace Fine Sand			
													7 - 14	Orange Brown Clayey Silt, Some Fine Sand, Little Organics (Roots, Shells)			
													14 - 17	Gray/White Fine Sand, Some Marl, Trace Clayey Silt, Trace Coarse Sand, Trace Gravel			

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Table E — Sediment Cores Advanced in December 2009 — Off-Channel Areas

Date	Transect	Location	Water (ft)	Probe (ft)	Penetration (ft)	Notes	Depth Interval (in)	Description
12/14/09	S-PC2-1	OCA14-01-01 (0+00)	0.4	1.5	2.2	Selected for laboratory analysis. Chose to sample this location based on collective input and agreement from all parties including ARCADIS, CDM and CH2MHILL.	0 - 6	Dark Brown Silt, Some Organics (Roots, Leaf) Little Fine Sand
							6 - 12	Dark Gray to Brown, Grading to Gray Brown Silt, Fine Sand, Little Organics (Roots), Trace Medium Sand
							12 - 22	Dark Gray, Fine Sand, Little Silt, Trace Medium Sand, Trace Organics (Shell Fragments)
		OCA14-01-02 (0+20)	2.6	1.1	1.5	For visual characterization only.	0 - 8	Dark Brown Silt, Some Fine Sand, Organics (Leaf), High Water Content
							8 - 18	Dark Brown to Gray Brown, Fine Sand, Little Silt, Trace Organics (Shells and Roots)
		OCA14-01-03 (0+30)	2.6	1.6	1.6	For visual characterization only.	0 - 6	Dark Brown Silt, Little Organics (Roots), High Water Content
							6 - 8	Dark Brown Silt, Trace Fine Sand, Trace Organics (Roots)
							8 - 10	Gray Brown Fine Sand, Little Silt, Trace (Shells), Trace Coarse Sand
							10 - 15	Dark Brown Silt, Little Fine Sand, Trace Coarse Sand, Trace Organics (Roots)
							15 - 18	Dark Brown to Black Gravel, Some Coarse, Little Medium, Trace Fine, Little Silt
		OCA14-01-04 (0+50)	2.1	1.2	1.7	For visual characterization only.	0 - 3	Dark Brown Silt, Little Fine Sand, Trace Organics (Roots and Shells)
							3 - 6	Gray Brown Fine Sand, Little Silt, Trace Organics (Roots and Shells)
							6 - 11	Dark Brown Silt, Some Fine Sand, Trace Organics (Roots and Shells)
							11 - 18	Brown to Light Brown/Tan, Fine Sand, Medium Sand, Coarse Sand, Trace Gravel, 16-18" Marl (Highly Degraded Shell Fragments) Strong Relation with HCL
		OCA14-01-05 (0+62)	0.3	0.9	1.5	For visual characterization only. CDM collected sample from 7-13" to be analyzed for PCB/TOC. J. Bradley (MDEQ) to confirm before submission of sample.	0 - 2	Dark Brown Organics, Roots, Silt, Trace Fine Sand
							2 - 7	Dark Brown Silt, Some Fine Sand, Little Organics (Roots)
							7 - 13	Orange Brown Silt, Little Fine Sand, Trace Gravel, Organics (Roots)
							13 - 14	Orange Brown Gravel, Some Coarse Sand, Little Medium Sand, Trace Fine Sand
	S-PC2-1.5	OCA14-1.5-01 (0+00)	0.2	2.0	2.0	For visual characterization only.	0 - 4	Dark Brown Organics (Roots), Little Silt, Trace Fine Sand
							4 - 6	Dark Brown Silt, Little Fine Sand, Trace Organics (Roots)
							6 - 11	Gray Silt, Little Fine Sand, Trace Organics (Roots)
							11 - 18	Dark Gray to Gray, Fine Sand, Trace Organics (Shells and Roots), Little Silt
		OCA14-1.5-02 (0+10)	2.6	1.3	2.4	For visual characterization only.	0 - 1	Dark Brown Silt, Trace Coarse Sand, Trace Organics (Roots)
							1 - 5	Gray Brown Coarse Sand, Medium Sand, Fine Sand, Trace Fine Gravel
							5 - 16	Dark Brown Silt, Little Organics (Wood and Roots) and Shell Fragments
							16 - 20	Dark Brown, Organics (Wood), Little Silt, Trace Fine Sand
							20 - 23	Dark Gray Fine Sand, Little Silt, Trace Gravel
		OCA14-1.5-03 (0+20)	1.9	2.9	2.3	For visual characterization only.	0 - 4	Light Brown to Dark Brown Coarse Sand, Medium Sand, Little Fine Sand, Trace Gravel, Trace Organics (Roots and Wood)
							4 - 8	Brown Fine Sand, Interbedded Silt Lenses, Trace Organics (Shells and Roots)
							8 - 19	Dark Brown to Black Clayey Silt, Little Organics (Roots and Shells), Trace Fine Sand
							19 - 20	Dark Gray Brown Gravel, Some Coarse Sand, Little Medium Sand, Trace Fine Sand, Trace Organics (Wood)

See Note on Page 6.

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Table E — Sediment Cores Advanced in December 2009 — Off-Channel Areas

Date	Transect	Location	Water (ft)	Probe (ft)	Penetration (ft)	Notes	Depth Interval (in)	Description	
12/14/09 (Cont.)	S-PC2-1.5 (Cont.)	OCA14-1.5-04 (0+30)	1.2	1.3	2.4	For visual characterization only.	0 - 5	Dark Brown (Organics (Roots and Leaf Litter), Some Silt, Little Fine Sand	
							5 - 14	Dark Brown Clayey Silt, Little Organics (Roots and Shells), Trace Fine Sand	
							14 - 17	Dark Brown Medium Sand, Some Fine Sand, Little Coarse Sand, Coarse Gravel Size Large Mass of Cemented Marl	
	OCA14-1.5-05 (0+37)		0.2	2.0	2.2	For visual characterization only.	0 - 4	Dark Brown, Organics (Roots), Some Silt	
							4 - 19	Dark Gray Brown to Dark Brown Clayey Silt, Little Organics (Roots, Shell Fragments) Trace Fine Sand, Bottom 1/2" Sand and Gravel	
	S-PC2-2	OCA14-02-01 (0+05)	0.3	1.5	2.6	For visual characterization only. 0+00 EOW at top of bank, adjusted sample location instream to 0+05.	0 - 2	Dark Brown Organics (Roots, Leaf Litter), Some Silt	
							2 - 9	Dark Orange Brown, Fine Sand, Some Silt, Little Organics (Roots)	
							9 - 18	Dark Brown Clayey Silt Some Fine Sand, Trace Organics (Roots and Shells)	
							18 - 21	Dark Gray Fine Sand, Little Silt, Trace Organics (Shells)	
							21 - 24	Dark Gray Brown Clayey Silt, Some Fine Sand, Trace Organics (Shells)	
							24 - 27	Dark Gray Fine Sand, Little Silt, Trace Organics (Shells)	
	OCA14-02-02 (0+10)		0.6	1.3	2.6	Selected for laboratory analysis. Field measurements of recovery off due to high turbidity with lexan core at time of collection. Chose to sample this location based on collective input and agreement from all parties present including ARCADIS, CDM, CH2MHILL.	0 - 3	Dark Brown Silt, Little Organics (Roots), High Water Content	
							3 - 18	Dark Brown Clayey Silt, Little Fine Sand, Trace Organics (Roots), 11-12" Organic Layer, Roots, Twigs, Shells	
							18 - 26	Dark Gray Fine Sand, Trace Silt, Trace Organics (Roots and Shells)	
	OCA14-02-03 (0+15)		NR	NR	NR	For visual characterization only.	0 - 4	Dark Brown Silt, Trace Organics (Roots, Leaf Litter), High Water Content	
							4 - 9	Dark Brown to Black Silt, Little Organics (Roots and Wood), Trace Fine Sand	
							9 - 24	Dark Gray Brown, Clay Silt, Little Organics (Roots, Wood, Shells), Trace Fine Sand	
							24 - 26	Dark Gray Fine Sand, Little Silt, Trace Organics (Wood and Shells)	
	OCA14-02-04 (0+25)		1.1	NR	1.8	For visual characterization only.	0 - 1	Dark Brown Silt, Little Organics (Roots), Trace Fine Sand, High Water Content	
							1 - 12	Dark Brown to Black, Clayey Silt, Little Organics (Roots and Wood)	
							12 - 20	Dark Gray, Silt, Some Fine Sand, Little Medium Sand, Trace Coarse Sand, Little Fine to Medium Coarse Gravel	
	OCA14-02-05 (0+30)		0.6	3.0	2.0	For visual characterization only. EOW at top of bank, adjusted sample location instream to 0+30.	0 - 2	Dark Brown Silt, Little Organics (Roots), Trace Fine Sand, High Water Content	
							2 - 11	Dark Gray Brown Organic Clayey Silt, Little Fine, Trace Organics (Roots and Shells)	
							11 - 12	Dark Brown/Gray, Medium Sand, Little Fine Sand, Trace Gravel, Small Amount of Marl	
							12 - 16	Dark Gray Brown Clayey Silt, Fine Sand, Trace Organics (Shells and Roots)	
							16 - 18	Gray Brown Gravel/Cobbles	
	S-PC2-2.5	OCA14-2.5-01 (0+00)	0.3	2.4	2.3	For visual characterization only.	0 - 3	Dark Brown Organics (Roots and Shells) Some Silt, Trace Fine Sand	
							3 - 8	Dark Orange Brown, Clayey Silt, Little Organics (Roots and Shells), Trace Fine Sand	
							8 - 22	Dark Gray Brown, Clayey Silt with Some Sand, Trace Organics (Roots and Shells)	

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Table E — Sediment Cores Advanced in December 2009 — Off-Channel Areas

Date	Transect	Location	Water (ft)	Probe (ft)	Penetration (ft)	Notes	Depth Interval (in)	Description	
12/14/2009 (Cont.)	S-PC2-2.5 (Cont.)	OCA14-2.5-03 (0+34)	0.1	1.3	1.5	For visual characterization only.	0 - 2	Dark Brown Organics (Roots, Leaf Litter and Wood) Some Silt, Trace Fine Sand	
		OCA14-2.5-02 (0+17)	1.2	1.6	1.6		2 - 15	Dark Brown Clayey Silt with Some Sand, Trace Organics (Roots, Wood, Shells)	
12/15/09	S-PC2-6.5	OCA14-6.5-01 (0+02)	0.1	2.5	2.3	For visual characterization only.	4 - 9	Dark Gray Brown Organics (Highly Degraded, Roots, Wood, and Shells), Some Silt	
							9 - 12	Dark Gray Brown Clayey Silt, Trace Organics (Roots and Shells)	
							12 - 19	Dark Gray Brown Organics (Highly Degraded, Roots, Wood, and Shells), Some Silt	
							0 - 4	Dark Brown Clayey Silt, Little Organics (Roots, Leaf Litter), Trace Fine Sand	
		OCA14-6.5-02 (0+10)	0.4	2.2	2.3	For visual characterization only.	4 - 8	Dark Brown Clayey Silt, Trace Organics (Roots, Shells)	
							8 - 14	Orange Brown Clayey Silt, Some Fine Sand, Trace Organics (Roots, Shells)	
							14 - 17	Dark Gray Fine Sand, Little Medium Sand, Trace Organics (Shells), Trace Coarse Sand	
		OCA14-6.5-03 (0+20)	0.3	2.5	2.3	For visual characterization only.	0 - 2	Dark Brown Silt, Some Organics (Roots, Leaf Litter) Trace Fine Sand, High Water Content	
							2 - 16	Orange Brown Grading to Dark Brown Clayey Silt, Trace Organics (Roots, Shells)	
							16 - 21	Dark Gray Fine Sands, Little Clayey Silt, Trace Organics (Roots, Shells)	
		OCA14-6.5-04 (0+30)	0.3	3.0	3.3	For visual characterization only.	0 - 10	Orange Brown Grading to Dark Gray Brown Clayey Silt, Trace Organics (Roots, Shells)	
							10 - 14	Dark Gray Brown Clayey Silt, Some Fine Sand, Trace Organics (Shells)	
							14 - 20	Gray Fine Sand, Little Medium Sand, Trace Organics (Shells)	
		OCA14-6.5-05 (0+42)	0.2	2.6	2.3	For visual characterization only.	0 - 19	Brown Grading to Dark Brown Clayey Silt, Trace Organics (Roots, Shells)	
							19 - 22	Dark Gray Fine Sand, Trace Coarse Sand, Trace Organics (Shells)	
							2 - 10	Orange Brown Clayey Silt, Little Organics (Roots, Wood), Trace Fine Sand	
		S-PC2-3.5	OCA14-3.5-01 (0+00)	NR	3.0	NR	For visual characterization only.	10 - 17	Dark Gray Fine Sand, Some Clayey Silt, Trace Medium Sand, Trace Organics (Roots)
							0 - 3	Dark Gray Brown Silt, Little Organics (Roots, Leaf Litter), Trace Fine Sand	
							3 - 16	Dark Gray Brown Clayey Silt, Little Fine Sand, Trace Organics (Roots, Shell Fragments)	
		OCA14-3.5-02 (0+10)	NR	3.0	NR	For visual characterization only.	16 - 23	Dark Gray Fine Sand, Little Silt, Trace Organics (Shells, Roots)	
							0 - 5	Light Gray Medium Sand, Some Fine Sand, Interbedded with Fine Sand and Organics (Dark Gray)	
							5 - 7	Dark Gray Brown Silt with Highly Degraded Organics	
							7 - 8	Light Gray Medium Sand, Some Fine Sand, Trace Silt	
							8 - 21	Dark Gray Brown Clayey Silt, Some Organics (Roots, Wood), Trace Fine Sand	
		OCA14-3.5-03 (0+20)	NR	3.0	NR	For visual characterization only.	21 - 28	Gray Fine Sand, Trace Coarse Sand, Trace Organics (Shells, Roots)	
							0 - 4	Dark Brown Organics (Roots), Some Silt, High Water Content	
							4 - 14	Dark Brown Silt, Some Organics (Roots), High Water Content	
		OCA14-3.5-04 (0+34)	NR	2.8	NR	For visual characterization only.	14 - 26	Dark Brown/Black Clayey Silt, Little Organics (Roots)	
							0 - 4	Dark Brown Silt, Little Organics (Roots), High Water Content	
							4 - 8	Dark Brown Organics (Root Mat), Silt	
							8 - 13	Dark Brown Clayey Silt, Some Fine Sand, Trace Organics (Wood and Shell Fragments)	
							13 - 21	Dark Gray Fine Sand, Little Clayey Silt, Trace Organics (Shells)	
							21 - 26	Dark Brown Clayey Silt, Little Organics (Shells), Trace Gravel	

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Date	Transect	Location	Water (ft)	Probe (ft)	Penetration (ft)	Notes	Depth Interval (in)	Description	
12/15/09 (Cont.)	S-PC2-7.5	OCA14-7.5-01 (0+10)	0.1	2.2	2.2	Selected for laboratory analysis.	0 - 1	Dark Brown Clayey Silt, Some Organics (Roots, Leaf Litter)	
							1 - 16	Dark Brown Clayey Silt, Trace Organics (Wood, Shell Fragments, Roots) Trace Fine Sand	
							16 - 17	Dark Gray Fine Sand, Little Medium Sand, Trace Coarse Sand, Trace Organics (Shells)	
		OCA14-7.5-02 (0+21)	0.7	1.7	1.7	For visual characterization only.	0 - 4	Dark Brown Clayey Silt, Little Fine Sand, Trace Organics (Roots, Leaves)	
							4 - 7	Dark Gray Brown Fine Sand, Some Clayey Silt, Trace Organics (Shells)	
							7 - 14	Dark Brown Clayey Silt, Trace Organics (Roots), Trace Fine Sand	
							14 - 15	Dark Brown Fine Sand, Little Clayey Silt, Trace Shells	
	OCA14-7.5-03 (0+31)		1.1	0.7	1.4	For visual characterization only.	0 - 4	Dark Brown Clayey Silt, Trace Organics (Roots, Leaves)	
							4 - 16	Gray Fine Sand Interbedded with Dark Brown Fine Sand and Organics, Trace Organics (Shells, Roots), Trace Clayey Silt, Last 1/2" is Gravel	
							17 - 18	Dark Gray Brown Fine Sand, Little Medium Sand, Trace Coarse Sand	
	S-PC2-7.0	OCA14-7.0-01 (0+5)	0.3	1.0	2.2	For visual characterization only.	0 - 5	Dark Brown Organics (Wood, Leaves) Little Clayey Silt	
							5 - 11	Dark Brown Clayey Silt, Little Organics (Leaves, Wood), Trace Fine Sand	
							11 - 15	Orange Brown Clayey Silt, Some Fine Sand, Trace Organics (Shells, Roots)	
		OCA14-7.0-02 (0+16)	0.4	3.0	2.6	For visual characterization only.	0 - 3	Dark Brown Clayey Silt, Some Organics (Roots, Wood), Trace Fine Sand	
							3 - 6	Brown Orange (Wood) Little Clayey Silt	
							6 - 15	Gray Brown Clayey Silt, Trace Organics (Wood, Roots), Trace Fine Sand	
		OCA14-7.0-03 (0+26)	0.4	5.0	3.1	For visual characterization only.	0 - 3	Dark Brown Organics (Roots, Leaves, Wood) Little Clayey Silt	
							3 - 21	Dark Brown Grading to Dark Gray Brown, Clayey Silt, Trace Organics (Roots, Shells), Trace Fine Sand	
		OCA14-7.0-04 (0+36)	0.7	2.7	3.7	For visual characterization only.	0 - 3	Dark Brown Clayey Silt, Little Organics (Roots, Wood)	
							3 - 16	Dark Brown Clayey Silt, Little Organics, Trace Fine Sand	
		OCA14-7.0-05 (0+46)	0.3	1.6	2.4	Selected for laboratory analysis.	0 - 3	Dark Brown Organics (Roots, Wood, Leaves), Some Clayey Silt	
							3 - 14	Dark Brown Clayey Silt, Little Organics (Wood, Roots)	
							14 - 17	Dark Brown Organics (Wood), Trace Clayey Silt	
							17 - 19	Dark Gray Silty Clay, Trace Organics (Roots), Has Slight Odor - Noticed During Homogenizing	
S-PC2-6.0	OCA14-6.0-01 (0+00)	0.1	2.5	2.6	For visual characterization only.	0 - 2	Dark Brown Clayey Silt, Little Organics (Root, Leaves), Wet		
							2 - 14	Dark Brown Clayey Silt, Little Organics (Roots, Shells) Trace Fine Sand	
							14 - 15	Dark Brown Clayey Silt, Trace Fine Sand, Trace Organics (Wood, Shells)	
	OCA14-6.0-02 (0+20)	0.6	4.3	3.0	For visual characterization only.	0 - 1	Dark Brown Clayey Silt, Little Organics (Roots, Leaves), Wet		
							1 - 8	Orange Brown Clayey Silt, Little Organics (Roots, Shells), Trace Fine Sand	
							8 - 17	Dark Brown Black Clayey Silt, Little Organics (Roots, Wood), Trace Fine Sand	
	OCA14-6.0-03 (0+30)	0.8	4.1	4.8	Selected for laboratory analysis.	0 - 1	Brown Clayey Silt, Little Organics (Leaves, Roots), Wet		
							1 - 10	Brown Clayey Silt, Trace Organics (Roots, Shells), Trace Fine Sand	
							10 - 19	Dark Brown Black Clayey Silt, Little Organics (Roots, Shells), Trace Fine Sand	

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Date	Transect	Location	Water (ft)	Probe (ft)	Penetration (ft)	Notes	Depth Interval (in)	Description
12/15/09 (Cont.)	S-PC2-6.0 (Cont.)	OCA14-6.0-04 (0+40)	0.7	3.2	3.6	For visual characterization only.	0 - 2	Dark Brown Clayey Silt, Little Organics (Roots, Leaves), Wet
							2 - 16	Brown Grading to Dark Gray Brown Clayey Silt, Little Organics (Wood, Roots, Shells), Trace Fine Sand
							16 - 17	Dark Gray Brown Fine Sand, Some Clayey Silt, Trace Organics (Roots, Shells)
	S-PC2-04	OCA14-6.0-05 (0+50)	0.1	2.2	2.3	For visual characterization only.	0 - 2	Dark Brown Clayey Silt, Some Organics (Wood, Roots, Leaves), High Water Content
							2 - 9	Brown Clayey Silt, Little Organics (Roots, Leaves, Wood)
							0 - 2	Dark Brown Clayey Silt, Some Organics (Roots, Leaves), Wet
	S-PC2-04	OCA14-04-01 (0+10)	0.2	3.2	3.2	For visual characterization only.	2 - 21	Dark Brown Grading to Dark Brown/Black Clayey Silt, Little Organics (Roots, Shells), Trace Fine Sand, Gray Fine Sand Lens from 13-14"
							0 - 2	Dark Brown Clayey Silt, Some Organics (Roots), Wet
							2 - 15	Dark Brown Clayey Silt, Little Organics (Roots, Wood, Shells)
	S-PC2-04	OCA14-04-02 (0+38)	0.6	4.0	3.1	For visual characterization only.	15 - 19	Dark Brown Clayey Silt, Some Organics (Highly Degraded Wood, Roots, Shells), Trace Fine Sand
							0 - 6	Dark Brown Clayey Silt, Little Organics (Leaves, Wood), High Water Content
							6 - 14	Dark Brown/Black Clayey Silt, Little Organics (Roots, Shells)
	S-PC2-04	OCA14-04-03 (0+48)	0.7	3.2	3.6	Selected for laboratory analysis.	14 - 23	Dark Brown Clayey Silt, Some Fine Sand, Trace Organics (Roots, Wood, Shells), 14-16" Piece of Wood
							0 - 5	Dark Brown Clayey Silt, Little Organics (Roots), Soft
							5 - 15	Dark Brown Clayey Silt, Little Organics (Wood)
	S-PC2-04	OCA14-04-04 (0+58)	1.2	2.9	2.6	For visual characterization only.	0 - 12	Brown Grading to Dark Brown/Black Clayey Silt, Little Organics (Wood, Shell Fragments)
							12 - 20	Dark Brown Black Clayey Silt, Trace Fine Sand, Some Organics (Roots, Wood, Shells)
							0 - 2	Dark Brown Clayey Silt, Little Organics (Roots, Wood), Wet, Soft
	S-PC2-03	OCA14-03-01 (0+00)	0.2	2.5	3.2	For visual characterization only.	2 - 19	Dark Brown Clayey Silt, Little Organics (Roots, Shells, Wood), Trace Fine Sand
							19 - 20	Dark Gray/Brown Clayey Silt, Some Fine Sand, Trace Organics (Shells, Roots)
							0 - 2	Dark Brown Clayey Silt, Little Organics (Roots, Leaves), Wet
	S-PC2-03	OCA14-03-02 (0+10)	0.6	2.5	2.8	Selected for laboratory analysis.	2 - 6	Dark Gray Fine Sand, Little Organics (Roots, Shells)
							6 - 21	Dark Gray Brown Clayey Silt, Little Organics (Roots, Wood, Shell Fragments)
							0 - 2	Dark Brown Clayey Silt, Little Organics (Roots)
	S-PC2-03	OCA14-03-03 (0+20)	0.6	2.9	3.4	For visual characterization only.	2 - 20	Dark Brown Grading to Dark Gray/Black Clayey Silt, Little Organics (Roots, Wood, Shells)
							0 - 4	Dark Brown Clayey Silt, Little Organics (Wood, Leaves), High Water Content
							4 - 21	Dark Brown Clayey Silt, Little Organics (Wood, Shells), Trace Fine Sand
	S-PC2-03	OCA14-03-04 (0+30)	0.4	2.0	2.4	For visual characterization only.	21 - 22	Dark Brown Clayey Silt, Some Organics (Wood, Shells)
							0 - 5	Dark Brown Clayey Silt, Little Organics (Roots), High Water Content
							5 - 20	Dark Brown/Black Clayey Silt, Little Organics (Roots, Shells), Trace Fine Sand

Notes:

NR - not recorded.

Only one core from every other transect was sent for laboratory analysis (see Table F). The remaining cores were collected for visual characterization only.

All cores collected using 3" Lexan.

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Table F — Off-Channel Samples Collected in December 2009

Transect	Location	Sample ID	Depth Interval (in)	Analysis
S-PC2-1	OCA14-01-01 (0+00)	K56805	0 - 2	PCB/TOC
		K56806	2 - 6	PCB/TOC
		K56807	6 - 9	PCB/TOC
		K56808	9 - 11	PCB/TOC
		K56809 ¹ [K56810]	11 - 22	PCB/TOC
S-PC2-2	OCA14-02-02 (0+10)	K56811	0 - 2	PCB/TOC
		K56812	2 - 6	PCB/TOC/Grain Size
		K56813	6 - 12	PCB/TOC/Grain Size
		K56814	12 - 24	PCB/TOC/Grain Size
		K56815	24 - 26	PCB/TOC
S-PC2-7.0	OCA14-7-05 (0+46)	K56816	0 - 2	PCB/TOC/Grain Size
		K56817	2 - 6	PCB/TOC/Grain Size
		K56818	6 - 12	PCB/TOC/Grain Size
		K56819	12 - 17	PCB/TOC/Grain Size
		K56820	17 - 19	PCB/TOC/Grain Size
S-PC2-6.0	OCA14-6.0-03 (0+30)	K56821	0 - 2	PCB/TOC/Grain Size
		K56822	2 - 6	PCB/TOC/Grain Size
		K56823	6 - 12	PCB/TOC/Grain Size
		K56824 ¹ [K56825]	12 - 19	PCB/TOC/Grain Size
		K56826	0 - 2	PCB/TOC/Grain Size
S-PC2-05	OCA14-05-04 (0+30)	K56827	2 - 6	PCB/TOC/Grain Size
		K56828	6 - 12	PCB/TOC/Grain Size
		K56829	12 - 15	PCB/TOC/Grain Size
		K56830	0 - 2	PCB/TOC/Grain Size
S-PC2-04	OCA14-04-03 (0+48)	K56831	2 - 6	PCB/TOC/Grain Size
		K56832	6 - 12	PCB/TOC/Grain Size
		K56833	12 - 23	PCB/TOC/Grain Size
		K56834	0 - 2	PCB/TOC/Grain Size
S-PC2-03	OCA14-03-02 (0+10)	K56835	2 - 6	PCB/TOC/Grain Size
		K56836	6 - 12	PCB/TOC/Grain Size
		K56837	12 - 21	PCB/TOC/Grain Size

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

Cores segmented on December 14 and 15.

Samples sent to TestAmerica Laboratories, Inc. for analysis.

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Table G — Off-Channel Transects Probed in December 2009

Date	Location	Station	Distance from "A" Side (ft)	Water Depth (ft)	Sediment Depth (ft)	Sediment Description
Area 1						
12/15/09	S-IS-1	0+00	0 EOW	0.8	1.0	Silt Over Sand
		0+10	10	2.0	0.7	Sand/Gravel
		0+20	20	3.1	1.1	Sand/Gravel
		0+30	30	4.5	0.5	Sand Over Gravel
		0+40	40	3.2	0.1	Sand Over Gravel
		0+50	50 EOW	2.5	0.1	Sand Over Gravel
12/16/09	S-IS-1.5	0+00	0 EOW	0.8	3.2	Sand/Silt Hard Bottom
		0+10	10	2.2	1.9	Sand/Silt Hard Bottom
		0+20	20	3.3	1.2	Sand/Hard Bottom
		0+30	30	3.2	0.7	Silt/Sand
		0+46	40	3.0	0.1	Silt/Hard Bottom
		0+50	50 EOW	0.1	2.0	Silt/Hard Bottom
	S-IS-2	0+00	0 EOW	0.3	0.2	Gravel Over Hard Bottom
		0+10	10	2.8	0.5	Silt/Sand Over Hard Bottom
		0+20	20	2.5	1.0	Silt/Sand Over Hard Bottom
		0+30	30	2.2	1.3	Sand Over Hard Bottom
		0+40	40	2.95	0.5	Silt Over Hard Bottom
		0+50	50	2.0	1.2	Silt Over Hard Bottom
		0+56	56 EOW	1.0	2.0	Silt Over Hard Bottom
12/16/09	S-IS-1-2.5	0+00	0 EOW	0.1	1.5	Silt Over Hard Bottom
		0+10	10	2.9	2.0	Silt Over Sand, Sand Hard Bottom
		0+20	20	2.3	3.3	Silt Over Sand, Sand Hard Bottom
		0+30	30	1.8	3.5	Sand Over Hard Bottom
		0+40	40	2.2	2.5	Sand Over Hard Bottom
		0+50	50	1.6	3.2	Silt Over Sand Over Sand Hard Bottom
		0+60	60	0.8	2.0	Silt Over Hard Bottom
		0+62	62 EOW	0.1	2.0	Silt Over Hard Bottom
12/16/09	S-IS-1-3	0+00	0 EOW	1.6	1.3	Silt Over Sand Over Hard Bottom
		0+10	10	1.7	1.2	Silt Over Hard Bottom
		0+20	20	1.8	1.1	Sand Over Hard Bottom
		0+30	30	1.5	2.0	Silt Over Sand Over Hard Bottom
		0+40	40	2.3	0.5	Sand Over Hard Bottom
		0+50	50	2.8	2.0	Silt Sand Over Hard Bottom
		0+60	60	1.2	1.0	Silty Clay Over Hard Bottom
		0+62	62 EOW	0.3	1.5	Silty Clay Over Hard Bottom
12/16/09	S-IS-1-3.5	0+00	0 EOW	0.1	1.5	Silt Over Sand Hard Bottom
		0+10	10	2.1	3.2	Silt Over Sand Hard Bottom
		0+20	20	2.5	2.0	Sand Over Silt Hard Bottom
		0+30	30	3.0	2.0	Sand Over Hard Bottom
		0+40	40	2.9	2.0	Silty Sand Over Hard Bottom
		0+41.6	41.6 EOW	0.4	2.5	Silty Clay Over Hard Bottom
12/16/09	S-IS-1-4	0+00	0 EOW	0.2	0.2	Clay Silt Over Hard Bottom
		0+10	10	2.0	2.5	Loose Silt, Sand Hard Bottom
		0+20	20	1.1	3.0	Soft Silt Hard Bottom
		0+26	26 EOW	0.0	3.2	Soft Silt Hard Bottom
		0+13	13 MC	1.8	3.0	Silt Over Sand Hard Bottom

See Note on Page 2.

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Table G — Off-Channel Transects Probed in December 2009

Date	Location	Station	Distance from "A" Side (ft)	Water Depth (ft)	Sediment Depth (ft)	Sediment Description
Area 1						
12/16/09	S-IS-1-4.5	0+00	0 EOW	0.1	0.5	Silt (Very Soft) Over Hard Bottom
		0+10	10	1.2	4.0	Very Soft Silts Over Hard Bottom
		0+20	20	1.5	3.0	Very Soft Silts Over Hard Bottom
		0+30	30	1.4	3.0	Very Soft Silts Over Hard Bottom
		0+40	40	1.0	3.5	Very Soft Silts Over Sand Hard Bottom
		0+50	50	0.3	2.5	Very Soft Silts Over Hard Bottom
		0+52.5	52.5	-	-	-
		0+57	57 EOW	0.0	4.0	Very Soft Silts Over Hard Bottom
	S-IS-1-5	0+00	0 EOW	0.1	4.2	Silt Over Hard Bottom
		0+10	10	1.2	1.5	Very Soft Silt Over Hard Bottom
		0+20	20	1.5	2.0	Soft Silt Over Hard Bottom
		0+30	30	1.5	2.0	Silt Over Silty Sand Over Hard Bottom
		0+40	40	1.4	1.5	Silt Over Silty Sand Over Hard Bottom
		0+50	50	0.9	3.0	Silt Over Hard Bottom
		0+60	60	0.8	2.0	Silt Over Sand
		0+68	68 EOW	0.0	3.5	Silt Over Hard Bottom
	S-IS-1-5.5	0+00	0 EOW	0.1	2.0	Soft Silt Over Hard Bottom
		0+10	10	0.4	3.1	Soft Silt Over Hard Bottom
		0+20	20	1.2	2.0	Soft Silt Over Hard Bottom
		0+30	30	1.1	2.7	Soft Silt Over Hard Bottom
		0+40	40	1.3	2.3	Soft Silt Over Hard Bottom
		0+50	50	0.8	3.0	Silt Over Sand
		0+55	55 EOW	0.4	2.1	Soft Silt Over Sand
		0+00	0 EOW	0.1	2.5	Silt Over Sand
	S-IS-1-6	0+10	10	1.0	2.8	Silt Over Hard Bottom
		0+20	20	1.3	2.8	Soft Silt Over Hard Bottom
		0+30	30	1.1	6.0	Soft Silt Over Sand
		0+40	40	0.7	4.5	Silt Over Sand
		0+44	44 EOW	0.0	4.3	Silt Over Sand
		0+00	0 EOW	0.1	2.0	Silt Over Sand
	S-IS-1-6.5	0+10	10	1.5	4.0	Soft Silt Over Sand Over Hard Bottom
		0+20	20	2.2	5.0	Silt Loose Sand at Bottom Over Hard Bottom
		0+30	30	2.3	6.5	Soft Silt at Hard Bottom
		0+40	40	1.3	6.0	Soft Silt at Hard Bottom
		0+51.5	51.5 EOW	0.2	5.0	Soft Silt at Hard Bottom
		0+00	0 EOW	0.05	0.2	Gravel
	S-IS-1-7	0+10	10	2.2	0.5	Silt Over Hard Bottom, Garbage Can
		0+20	20	0.9	0.5	Silt Over Stone
		0+30	30	0.5	1.5	Silt Over Hard Bottom
		0+36	36 EOW	0.2	6.2	Soft Silt Over Sand

Note:

EOW - edge of water.

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Table H — Plainwell TCRA Area — Groundwater and Surface Water Samples Collected in December 2009

Date Sampled	ARCADIS Sample ID	Location ID	CDM Split ID
12/14/09	TS40051	MW-12	PGW-MW12-01
	TS30009 [TS30010]	SG-5	N/A
12/15/09	TS40052	MW-14	N/A
	TS40053	MW-11	N/A
	TS40054	MW-13	N/A
	TS40055	MW-15	N/A
12/16/09	TS40056	MW-10	PGW-MW10-01
	TS40057 ¹	MW-5	N/A
	TS40058	MW-4	N/A
	TS40059	MW-8	N/A
12/17/09	TS40060 [TS40061]	MW-3	PGW-MW3-01
	TS40062 [TS40063]	MW-7	N/A
	TS40064	MW-2	N/A
	TS40065	MW-6	PGW-MW6-01
12/18/09	TS40066	MW-1	PGW-MW1-01
	TS40067	MW-9	N/A
	TS30011 ¹	SG-5	N/A

Notes:

All samples collected by ARCADIS were sent to TestAmerica Laboratories, Inc. for the following analyses: PCBs, total organic carbon (TOC), total dissolved solids (TDS), total suspended solids (TSS), chloride, sulfate and alkalinity, and total metals (i.e., sodium, calcium, potassium, magnesium).

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

N/A - not applicable, split sample not collected.

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Table I — Lake Allegan (Area 6) — Surface Sediment Samples — Analytical Data Received in December 2009

Date Collected	Location	Sample ID	SDG	Date Received
10/27/09	SPI-20	K56419	KAL484	12/2/09
10/28/09	SPI-21	K56420	KAL484	12/2/09
	SPI-22	K56421	KAL484	12/2/09
	SPI-23	K56422	KAL484	12/2/09
	SPI-24	K56423	KAL484	12/2/09
	SPI-25	K56424	KAL484	12/2/09
	SPI-26	K56425	KAL484	12/2/09
	SPI-27	K56426	KAL484	12/2/09
	SPI-28	K56427	KAL484	12/2/09
	SPI-29	K56428	KAL484	12/2/09
	SPI-30	K56429	KAL484	12/2/09
	SPI-31	K56430	KAL484	12/2/09
	SPI-32	K56431	KAL484	12/2/09
	SPI-33	K56432 [K56433]	KAL484 [KAL484]	12/2/09
	SPI-34	K56434	KAL484	12/2/09
	SPI-35	K56435 ¹	KAL484	12/2/09
	SPI-36	K56436	KAL484	12/2/09
	SPI-37	K56437	KAL484	12/2/09
	SPI-38	K56438	KAL484	12/2/09
	SPI-39	K56439	KAL485	12/9/09
	SPI-40	K56440	KAL485	12/9/09

Notes:

All samples collected using 3" Lexan, and sent to TestAmerica Laboratories for PCB, TOC, and grain size analysis.

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

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Table J — Lake Allegan (Area 6) — Samples Released for PCB Analyses from Lake Allegan — Analytical Data Received in December 2009

Date Collected	Location	Depth Interval (cm)	Sample ID	SDG	Date Received
5/13/09	SPI-40	0-1	K16818	KAL487	12/8/09
		1-2	K16819	KAL487	12/8/09
		2-3	K16820	KAL487	12/8/09
		3-4	K16821	KAL487	12/8/09
		4-5	K16822	KAL487	12/8/09
		5-6	K16823	KAL487	12/8/09
		6-7	K16824	KAL487	12/8/09
		7-8	K16825	KAL487	12/8/09
		8-9	K16826	KAL488	12/11/09
		9-10	K16827	KAL488	12/11/09
		10-12	K16828	KAL488	12/11/09
		12-14	K16829	KAL488	12/11/09
		14-16	K16830	KAL488	12/11/09
		16-18	K16831	KAL488	12/11/09
		18-20	K16832	KAL488	12/11/09
		20-25	K16833	KAL488	12/11/09
		25-30	K16834	KAL488	12/11/09
		30-35	K16835	KAL488	12/11/09
		35-40	K16836	KAL488	12/11/09
		40-45	K16837	KAL488	12/11/09
		45-50	K16838	KAL488	12/11/09
		50-55	K16839 ¹	KAL488	12/11/09
		55-60	K16840	KAL487	12/8/09
		60-65	K16841	KAL487	12/8/09
		65-70	K16842 ¹	KAL487	12/8/09

Notes:

Samples were submitted to TestAmerica Laboratories, Inc. for PCB and percent solids analysis.

¹MS/MSD performed on this sample.

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Table K — Hot Spot Assessment — Sediment Samples — Status of Analytical Data

Location	Sample ID	Depth Interval (in)	SDG	Date Received
KRT4-C	K56441	0 - 2	KAL485	12/9/09
	K56442	2 - 6	KAL485	12/9/09
	K56443	6 - 12	KAL485	12/9/09
	K56444	12 - 18	KAL485	12/9/09
	K56445	18 - 24	KAL485	12/9/09
	K56446	24 - 28	KAL485	12/9/09
	K56447	28 - 32	KAL485	12/9/09
	K56448	32 - 36	KAL485	12/9/09
	K56449	36 - 46	KAL485	12/9/09
KRT4-E	K56450	0 - 2	KAL485	12/9/09
	K56451	2 - 4	KAL485	12/9/09
	K56452	4 - 6	KAL485	12/9/09
	K56453	6 - 12	KAL485	12/9/09
	K56454 [K56458]	12 - 24	KAL485 [KAL485]	12/9/09
	K56455 ¹	24 - 36	KAL485	12/9/09
	K56456	36 - 41	KAL485	12/9/09
	K56457	41 - 46	KAL485	12/9/09
KRT4-F	K56459	0 - 2	KAL486	12/14/09
	K56460	2 - 6	KAL486	12/14/09
	K56461	6 - 12	KAL486	12/14/09
	K56462 ¹ [K56465]	12 - 24	KAL486	12/14/09
	K56463	24 - 27	KAL486	12/14/09
	K56464	27 - 30	KAL486	12/14/09
KRT4-D	K56466	0 - 2	KAL486	12/14/09
	K56467	2 - 6	KAL486	12/14/09
	K56468	6 - 12	KAL486	12/14/09
	K56469	12 - 15	KAL486	12/14/09
	K56470	15 - 21	KAL486	12/14/09
KRT5-A	K56471	0 - 2	NR	NR
	K56472	2 - 6	NR	NR
	K56473	6 - 12	NR	NR
	K56474	12 - 24	NR	NR
	K56475	24 - 36	NR	NR
	K56476 ¹	36 - 48	NR	NR
	K56477 [K56479]	48 - 60	NR	NR
KRT5-C	K56478	60 - 70	NR	NR
	K56480	0 - 2	NR	NR
	K56481	2 - 6	NR	NR
	K56482	6 - 12	NR	NR
KRT5-D	K56483	12 - 14	NR	NR
	K56484	0 - 2	NR	NR
	K56485	2 - 6	NR	NR
KRT5-E	K56486	6 - 9	NR	NR
	K56487	0 - 2	NR	NR
	K56488	2 - 6	NR	NR
	K56489	6 - 12	NR	NR
	K56490	12 - 18	NR	NR

See Notes on Page 5.

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Table K — Hot Spot Assessment — Sediment Samples — Status of Analytical Data

Location	Sample ID	Depth Interval (in)	SDG	Date Received
KRT5-F	K56491	0 - 2	NR	NR
	K56492	2 - 6	NR	NR
	K56493	6 - 12	NR	NR
	K56494	12 - 20	NR	NR
	K56495	20 - 24	NR	NR
	K56496	24 - 29	NR	NR
	K56497	29 - 32	NR	NR
	K56498	32 - 35	NR	NR
	K56499	35 - 42	NR	NR
	K56500	42 - 44	NR	NR
KPT4-3	K56501	0 - 2	NR	NR
	K56502	2 - 6	NR	NR
	K56503	6 - 9	NR	NR
	K56504	9 - 11	NR	NR
	K56505	11 - 24	NR	NR
	K56506	24 - 35	NR	NR
	K56507	35 - 38	NR	NR
	K56508	38 - 40	NR	NR
	K56509	40 - 48	NR	NR
	K56510	48 - 58	NR	NR
KPT23-6	K56531	0 - 2	NR	NR
	K56532	2 - 6	NR	NR
	K56533	6 - 12	NR	NR
	K56534	12 - 24	NR	NR
	K56535	24 - 33	NR	NR
KPT23-C	K56511	0 - 2	NR	NR
	K56512	2 - 6	NR	NR
	K56513	6 - 12	NR	NR
	K56514 [K56517]	12 - 24	NR	NR
	K56515 ¹	24 - 36	NR	NR
	K56516	36 - 38	NR	NR
KPT23-D	K56518	0 - 2	NR	NR
	K56519	2 - 6	NR	NR
	K56520	6 - 12	NR	NR
	K56521	12 - 22	NR	NR
KPT23-E	K56522	0 - 2	NR	NR
	K56523	2 - 6	NR	NR
	K56524	6 - 12	NR	NR
	K56525 [K56528]	12 - 24	NR	NR
	K56526 ¹	24 - 36	NR	NR
	K56527	36 - 39	NR	NR
KPT23-F	K56529	0 - 2	NR	NR
	K56530	2 - 6	NR	NR
KRT5-2	K56536	0 - 2	NR	NR
	K56537	2 - 6	NR	NR
	K56538	6 - 12	NR	NR
	K56539	12 - 19	NR	NR

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Table K — Hot Spot Assessment — Sediment Samples — Status of Analytical Data

Location	Sample ID	Depth Interval (in)	SDG	Date Received
KRT5-5	K56540	0 - 2	NR	NR
	K56541	2 - 6	NR	NR
	K56542	6 - 10	NR	NR
	K56543	10 - 12	NR	NR
	K56544	12 - 15	NR	NR
	K56545	15 - 21	NR	NR
	K56546	21 - 24	NR	NR
	K56547	24 - 30	NR	NR
KPT19-3	K56548	0 - 2	KAL493	12/29/09
	K56549	2 - 6	KAL493	12/29/09
	K56550	6 - 12	KAL493	12/29/09
	K56551	12 - 24	KAL493	12/29/09
	K56552	24 - 36	KAL493	12/29/09
	K56553	36 - 43	KAL493	12/29/09
KPT19-C	K56567	0 - 2	KAL493	12/29/09
	K56568	2 - 6	NR	NR
	K56569	6 - 12	NR	NR
	K56570 [K56572]	12 - 24	NR	NR
	K56571 ¹	24 - 36	NR	NR
KPT19-D	K56554	0 - 2	KAL493	12/29/09
	K56555	2 - 6	KAL493	12/29/09
	K56556	6 - 12	KAL493	12/29/09
	K56557 ¹	12 - 24	KAL493	12/29/09
	K56558 [K56559]	24 - 34	KAL493 [KAL493]	12/29/09
KPT19-E	K56579	0 - 2	NR	NR
	K56580	2 - 6	NR	NR
	K56581	6 - 12	NR	NR
	K56582	12 - 15	NR	NR
KPT19-F	K56583	0 - 2	NR	NR
	K56584	2 - 6	NR	NR
	K56585	6 - 12	NR	NR
	K56586 [K56588]	12 - 24	NR	NR
	K56587 ¹	24 - 36	NR	NR
KPT19-G	K56573	0 - 2	NR	NR
	K56574	2 - 6	NR	NR
	K56575	6 - 12	NR	NR
	K56576	12 - 20	NR	NR
	K56577	20 - 24	NR	NR
	K56578	24 - 30	KAL493	12/29/09
KPT19-H	K56560	0 - 2	KAL493	12/29/09
	K56561	2 - 6	KAL493	12/29/09
	K56562	6 - 12	KAL493	12/29/09
	K56563	12 - 24	KAL493	12/29/09
	K56564	24 - 30	KAL493	12/29/09
	K56565	30 - 36	KAL493	12/29/09
	K56566	36 - 40	KAL493	12/29/09

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Table K — Hot Spot Assessment — Sediment Samples — Status of Analytical Data

Location	Sample ID	Depth Interval (in)	SDG	Date Received
S-IM1-3	K56609	0 - 2	NR	NR
	K56610	2 - 6	NR	NR
	K56611	6 - 12	NR	NR
	K56612 [K56514]	12 - 24	NR	NR
	K56613	24 - 27	NR	NR
S-IM1-4	K56615	0 - 2	NR	NR
	K56616	2 - 6	NR	NR
	K56617	6 - 12	NR	NR
	K56618	12 - 17	NR	NR
S-IM1-5	K56619	0 - 2	NR	NR
	K56620	2 - 5	NR	NR
	K56621 ¹	5 - 12	NR	NR
	K56622	12 - 15	NR	NR
	K56623	15 - 20	NR	NR
	K56624	20 - 25	NR	NR
S-IM1-6	K56604	0 - 2	NR	NR
	K56605	2 - 6	NR	NR
	K56606	6 - 12	NR	NR
	K56607	12 - 15	NR	NR
	K56608	15 - 19	NR	NR
S-IM1-7	K56597	0 - 2	NR	NR
	K56598	2 - 6	NR	NR
	K56599	6 - 10	NR	NR
	K56600	10 - 15	NR	NR
	K56601	15 - 24	NR	NR
	K56602	24 - 28	NR	NR
	K56603	28 - 30	NR	NR
S-IM1-8	K56589	0 - 2	NR	NR
	K56590	2 - 6	NR	NR
	K56591	6 - 12	NR	NR
	K56592 [K56596]	12 - 24	NR	NR
	K56593 ¹	24 - 36	NR	NR
	K56594	36 - 48	NR	NR
	K56595	48 - 50	NR	NR
KPT19-K	K56625	0 - 2	NR	NR
	K56626	2 - 6	NR	NR
	K56627	6 - 12	NR	NR
	K56628 [K56631]	12 - 24	NR	NR
	K56629 ¹	24 - 36	NR	NR
	K56630	36 - 42	NR	NR
KPT20-B	K56632	0 - 2	NR	NR
	K56633	2 - 6	NR	NR
	K56634	6 - 12	NR	NR
	K56635	12 - 23	NR	NR
KPT20-C	K56636	0 - 2	NR	NR
	K56637	2 - 6	NR	NR
	K56638	6 - 12	NR	NR

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Table K — Hot Spot Assessment — Sediment Samples — Status of Analytical Data

Location	Sample ID	Depth Interval (in)	SDG	Date Received
KPT20-A	K56639	0 - 2	NR	NR
	K56640	2 - 7	NR	NR
	K56641	7 - 12	NR	NR
KPT20-8	K56642	0 - 2	NR	NR
	K56643	2 - 6	NR	NR
	K56644	6 - 8	NR	NR

Notes:

¹MS/MSD performed on this sample.

Duplicate samples are in brackets.

Samples sent to TestAmerica Laboratories, Inc. for PCB, TOC, and grain size analysis.

NR - Data not received by December 31, 2009.

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Table L — Validated PCB Results for Sediment Stepout Samples — Data Received in October 2009

Sample Name:		K56397 29 - 31 07/10/09 FF-35-40S	K56398 31 - 35 07/10/09 FF-35-40S
Sample Depth (in):	Units		
Date Collected:			
Location ID:			
PCB Aroclors			
Aroclor-1016	mg/kg	0.096 U	0.083 U
Aroclor-1221	mg/kg	0.096 U	0.083 U
Aroclor-1232	mg/kg	0.096 U	0.083 U
Aroclor-1242	mg/kg	0.096 U	0.083 U
Aroclor-1248	mg/kg	0.096 U	0.083 U
Aroclor-1254	mg/kg	0.096 U	0.083 U
Aroclor-1260	mg/kg	0.096 U	0.083 U
Total PCBs	mg/kg	0.096 U	0.083 U
Miscellaneous			
Percent Solids	%	51.7	58.5
TOC			
Total Organic Carbon	mg/kg	39900	25000
Grain Size Analysis			
Gravel	%	0	3.9
Coarse Sand	%	0.4	1.2
Medium Sand	%	2.5	4.4
Fine Sand	%	69.9	60.3
Silt	%	19.7	21.6
Clay	%	7.5	8.6
Sieve, 3 inch	% passing	100 (75000)	100 (75000)
Sieve, 2 inch	% passing	100 (50000)	100 (50000)
Sieve, 1.5 inch	% passing	100 (37500)	100 (37500)
Sieve, 1 inch	% passing	100 (25000)	100 (25000)
Sieve, 3/4 inch	% passing	100 (19000)	100 (19000)
Sieve, 3/8 inch	% passing	100 (9500)	100 (9500)
Sieve, #4	% passing	100 (4750)	96.1 (4750)
Sieve, #10	% passing	99.6 (2000)	94.9 (2000)
Sieve, #20	% passing	99.2 (850)	93.6 (850)
Sieve, #40	% passing	97.2 (425)	90.5 (425)
Sieve, #60	% passing	82.1 (250)	80.7 (250)
Sieve, #80	% passing	59.1 (180)	61.2 (180)
Sieve, #100	% passing	45.6 (150)	48.3 (150)
Sieve, #200	% passing	27.3 (75)	30.2 (75)
Hydrometer Reading 1	% passing	19.1 (35)	20.2 (34)
Hydrometer Reading 2	% passing	16.2 (22)	17.1 (22)
Hydrometer Reading 3	% passing	13.3 (13.1)	13.9 (12.8)
Hydrometer Reading 4	% passing	10.4 (9)	11.8 (9.2)
Hydrometer Reading 5	% passing	7.5 (6.7)	8.6 (6.4)
Hydrometer Reading 6	% passing	4.6 (3.2)	5.4 (3.2)
Hydrometer Reading 7	% passing	1.7 (1.4)	2.3 (1.4)

Notes:

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Samples analyzed by TestAmerica Laboratories, Inc.

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Table M — Validated PCB Results for Groundwater and Surface Water Samples Collected in the Plainwell TCRA — Data Received in October 2009

Sample Name: Date Collected: Location ID:	Units	TS31006 09/21/09 SG-5	TS31007 [TS31008] 09/24/09 SG-5	TS40034 09/21/09 MW-5	TS40035 09/21/09 MW-4	TS40036 09/21/09 MW-8	TS40037 09/22/09 MW-3	TS40038 09/22/09 MW-7	TS40039 09/22/09 MW-2	TS40040 09/22/09 MW-6	TS40041 09/22/09 MW-9
PCBs (Test America Labs)											
Aroclor-1016	ug/L	0.048 U	0.051 U [0.050 U]	0.049 U	0.052 U	0.048 U	0.048 U	0.047 U	0.050 U	0.048 U	0.048 U
Aroclor-1221	ug/L	0.048 U	0.051 U [0.050 U]	0.049 U	0.052 U	0.048 U	0.048 U	0.047 U	0.050 U	0.048 U	0.048 U
Aroclor-1232	ug/L	0.048 U	0.051 U [0.050 U]	0.049 U	0.052 U	0.048 U	0.048 U	0.047 U	0.050 U	0.048 U	0.048 U
Aroclor-1242	ug/L	0.048 U	0.051 U [0.050 U]	0.049 U	0.052 U	0.048 U	0.048 U	0.047 U	0.050 U	0.048 U	0.048 U
Aroclor-1248	ug/L	0.048 U	0.051 U [0.050 U]	0.049 U	0.052 U	0.048 U	0.048 U	0.047 U	0.050 U	0.048 U	0.048 U
Aroclor-1254	ug/L	0.048 U	0.051 U [0.050 U]	0.049 U	0.052 U	0.048 U	0.048 U	0.047 U	0.050 U	0.048 U	0.048 U
Aroclor-1260	ug/L	0.048 U	0.051 U [0.050 U]	0.049 U	0.052 U	0.048 U	0.048 U	0.047 U	0.050 U	0.048 U	0.048 U
Total PCB-STL	ug/L	0.048 U	0.051 U [0.050 U]	0.049 U	0.052 U	0.048 U	0.048 U	0.047 U	0.050 U	0.048 U	0.048 U
Inorganics											
Calcium	ug/L	76,000	78,400 J [77,300 J]	157,000 J	125,000 J	104,000 J	127,000 J	129,000 J	150,000 J	114,000 J	87,400 J
Magnesium	ug/L	24,300	24,900 J [24,600 J]	34,400 J	29,600 J	26,600 J	30,900 J	28,000 J	29,300 J	23,200 J	23,000 J
Potassium	ug/L	3,020 B	2,810 B [2,710 B]	3,060 B	2,080 B	2,070 B	2,220 B	1,960 B	2,010 B	1,770 B	2,200 B
Sodium	ug/L	36,400	36,000 J [35,600 J]	57,500 J	74,900 J	94,100 J	66,900 J	67,900 J	65,500 J	63,400 J	76,500 J
Miscellaneous											
Alkalinity	mg/L	220	230 [230]	370	360	280	330	300	320	270	250
Chloride	mg/L	65	66 [61]	91	130	160	110	140	120	120	130
Sulfate	mg/L	33	35 [32]	150	57	57	81	88	130	80	28
Total Dissolved Solids	mg/L	391	396 [407]	811	671	637	664	662	739	583	526
Total Organic Carbon	mg/L	4.7	4 [4.2]	7.3	5.4	2.7	3.9	4.3	5.6	5.1	2.1
Total Suspended Solids	mg/L	2.8	4.6 [4.5]	13	14	8.9	13.8	15.8	27.7	17.1	5.8

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Table M — Validated PCB Results for Groundwater and Surface Water Samples Collected in the Plainwell TCRA — Data Received in October 2009

Sample Name: Date Collected: Location ID:	Units	TS40042 09/22/09 MW-1	TS40043 09/23/09 MW-12	TS40044 [TS40045] 09/23/09 MW-11	TS40046 [TS40047] 09/23/09 MW-10	TS40048 09/23/09 MW-13	TS40049 09/24/09 MW-15	TS40050 09/24/09 MW-14
PCBs (Test America Labs)								
Aroclor-1016	ug/L	0.047 U	0.048 U	0.047 U [0.048 U]	0.048 U [0.047 U]	0.050 U	0.050 U	0.047 U
Aroclor-1221	ug/L	0.047 U	0.048 U	0.047 U [0.048 U]	0.048 U [0.047 U]	0.050 U	0.050 U	0.047 U
Aroclor-1232	ug/L	0.047 U	0.048 U	0.047 U [0.048 U]	0.048 U [0.047 U]	0.050 U	0.050 U	0.047 U
Aroclor-1242	ug/L	0.047 U	0.048 U	0.047 U [0.048 U]	0.048 U [0.047 U]	0.050 U	0.050 U	0.047 U
Aroclor-1248	ug/L	0.047 U	0.048 U	0.047 U [0.048 U]	0.048 U [0.047 U]	0.050 U	0.050 U	0.047 U
Aroclor-1254	ug/L	0.047 U	0.048 U	0.047 U [0.048 U]	0.048 U [0.047 U]	0.050 U	0.050 U	0.047 U
Aroclor-1260	ug/L	0.047 U	0.048 U	0.047 U [0.048 U]	0.048 U [0.047 U]	0.050 U	0.050 U	0.047 U
Total PCB-STL	ug/L	0.047 U	0.048 U	0.047 U [0.048 U]	0.048 U [0.047 U]	0.050 U	0.050 U	0.047 U
Inorganics								
Calcium	ug/L	110,000 J	98,600 J	105,000 J [103,000 J]	160,000 J [159,000 J]	93,200 J	107,000 J	92,100 J
Magnesium	ug/L	26,700 J	23,300 J	24,900 J [24,500 J]	22,900 J [22,900 J]	21,900 J	26,900 J	22,100 J
Potassium	ug/L	2,660 B	2,590 B	2,020 B [2,060 B]	1,350 B [1,310 B]	1,770 B	2,680 B	1,180 B
Sodium	ug/L	56,100 J	24,100 J	53,800 J [53,200 J]	58,300 J [58,300 J]	67,000 J	74,400 J	41,000 J
Miscellaneous								
Alkalinity	mg/L	270	290	270 [280]	310 [310]	270	270	250
Chloride	mg/L	91	47	82 [83]	110 [110]	120	130	66
Sulfate	mg/L	86	34	62 [63]	140 [140]	27	55	50
Total Dissolved Solids	mg/L	583	437	535 [528]	754 [754]	508	574	446
Total Organic Carbon	mg/L	5.2	7.8	3.7 [4.1]	12.2 [11.9]	2.5	2.5	3.3
Total Suspended Solids	mg/L	6.2	5.2	13.5 [13.5]	19.9 [20.8]	14	11	12.9

Notes:

B - The reported value was obtained from a reading less than the contact required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

Samples analyzed by TestAmerica Laboratories, Inc.

Duplicate results are in brackets.

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Table N — Validated PCB Results for Sediment Samples Collected in Lake Allegan — Data Received in October 2009

Sample Name:		K16895	K16899	K16900	K16901	K16902	K16903	K16904	K16965	K16966	K16967
Sample Depth(cm):		20 - 25	40 - 45	45 - 50	50 - 55	55 - 60	60 - 65	65 - 70	0 - 1	1 - 2	2 - 3
Date Collected:		05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09
Location ID:	Units	ALG-7	ALG-5	ALG-5	ALG-5						
PCB Aroclors											
Aroclor-1016	mg/kg	0.34 U	1.7 U	0.25 U	0.15 UJ	0.15 U	0.14 UJ	0.14 U	0.27 U	0.24 U	0.22 U
Aroclor-1221	mg/kg	0.34 U	1.7 U	0.25 U	0.15 UJ	0.15 U	0.14 UJ	0.14 U	0.27 U	0.24 U	0.22 U
Aroclor-1232	mg/kg	0.34 U	1.7 U	0.25 U	0.15 UJ	0.15 U	0.14 UJ	0.14 U	0.27 U	0.24 U	0.22 U
Aroclor-1242	mg/kg	2.2	17	1.3	0.14 J	0.15 U	0.14 UJ	0.14 U	0.37	0.38	0.39
Aroclor-1248	mg/kg	0.34 U	1.7 U	0.25 U	0.15 UJ	0.15 U	0.14 UJ	0.14 U	0.20 J	0.20 J	0.21 J
Aroclor-1254	mg/kg	0.60	3.5	0.92	0.15 UJ	0.15 U	0.14 UJ	0.14 U	0.16 J	0.15 J	0.15 J
Aroclor-1260	mg/kg	0.34 U	1.7 U	0.25 U	0.13 J	0.14 J	0.078 J	0.14 U	0.27 U	0.24 U	0.22 U
Total PCBs	mg/kg	2.8	21	2.2	0.27 J	0.14 J	0.078 J	0.14 U	0.73 J	0.73 J	0.75 J
Miscellaneous											
Percent Solids	%	29.9	28.5	29.9	32.8	33.9	34.8	35.1	18.3	20.5	23

Sample Name:		K16968 [K16969]	K16970	K16971	K16972	K16973	K16974	K16975	K16976	K16977	K16978
Sample Depth(cm):		3 - 4	4 - 5	5 - 6	6 - 7	7 - 8	8 - 9	9 - 10	10 - 12	12 - 14	14 - 16
Date Collected:		05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09
Location ID:	Units	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5
PCB Aroclors											
Aroclor-1016	mg/kg	0.21 U [0.21 U]	0.21 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.38 U
Aroclor-1221	mg/kg	0.21 U [0.21 U]	0.21 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.38 U
Aroclor-1232	mg/kg	0.21 U [0.21 U]	0.21 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.38 U
Aroclor-1242	mg/kg	0.37 [0.50]	0.88	0.77	1.5	1.2	1.3	1.3 J	1.5	1.8	2.2
Aroclor-1248	mg/kg	0.19 J [0.26]	0.21 U	0.20 U	0.20 U	0.19 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.38 U
Aroclor-1254	mg/kg	0.17 J [0.23]	0.19 J	0.18 J	0.41	0.25	0.28	0.28 J	0.42	0.60	0.82
Aroclor-1260	mg/kg	0.21 U [0.21 U]	0.21 U	0.20 U	0.13 J	0.19 U	0.20 U	0.20 UJ	0.20 U	0.20 U	0.38 U
Total PCBs	mg/kg	0.73 J [0.99]	1.1	0.95	2.0	1.5	1.6	1.6 J	1.9	2.4	3.0
Miscellaneous											
Percent Solids	%	23.8 [24]	23.8	24.7	24.9	25.5	25	24.8	25.5	25.4	25.7

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Table N — Validated PCB Results for Sediment Samples Collected in Lake Allegan — Data Received in October 2009

Sample Name:		K16979 [K16979]	K16981	K16982	K16983	K16984	K16985	K16986	K16987	K16988	K16989
Sample Depth(cm):		16 - 18	18 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 45	45 - 50	50 - 55	60 - 65
Date Collected:		05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09
Location ID:	Units	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5	ALG-5
PCB Aroclors											
Aroclor-1016	mg/kg	0.23 U [0.51 U]	1.5 U	2.3 U	1.3 U	0.16 UJ	0.15 U	0.20 U	0.22 U	0.23 U	0.22 U
Aroclor-1221	mg/kg	0.23 U [0.51 U]	1.5 U	2.3 U	1.3 U	0.16 UJ	0.15 U	0.20 U	0.22 U	0.23 U	0.22 U
Aroclor-1232	mg/kg	0.23 U [0.51 U]	1.5 U	2.3 U	1.3 U	0.16 UJ	0.15 U	0.20 U	0.22 U	0.23 U	0.22 U
Aroclor-1242	mg/kg	2.9 [3.4]	19	31	8.3	1.0 J	0.72	0.20 U	0.15 J	0.23 U	0.22 U
Aroclor-1248	mg/kg	0.23 U [1.3]	1.5 U	2.3 U	1.3 U	0.16 UJ	0.15 U	0.20 U	0.22 U	0.23 U	0.22 U
Aroclor-1254	mg/kg	2.4 [1.2]	2.5	4.0	1.1 J	0.21 J	0.15 U	0.20 U	0.22 U	0.23 U	0.22 U
Aroclor-1260	mg/kg	0.23 U [0.26 J]	1.5 U	2.3 U	1.3 U	0.16 UJ	0.15 U	0.20 U	0.22 U	0.23 U	0.22 U
Total PCBs	mg/kg	5.3 [6.2]	22	35	9.4	1.2 J	0.72	0.20 U	0.15 J	0.23 U	0.22 U
Miscellaneous											
Percent Solids	%	20.4 [19.3]	17.1	11.9	18.8	33.8	32.6	25.5	23.4	23.4	21.7

Sample Name:		K16990	K16991	K16992	K16993	K16994 [K16995]	K16996	K16997	K16998	K16999	K17000 [K17001]
Sample Depth(cm):		0 - 1	1 - 2	2 - 3	3 - 4	4 - 5	5 - 6	6 - 7	7 - 8	8 - 9	9 - 10
Date Collected:		05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09
Location ID:	Units	ALG-6	ALG-6	ALG-6	ALG-6	ALG-6	ALG-6	ALG-6	ALG-6	ALG-6	ALG-6
PCB Aroclors											
Aroclor-1016	mg/kg	0.23 UJ	0.20 UJ	0.33 UJ	0.21 UJ	0.21 U [0.21 U]	0.20 U	0.16 U	0.19 U	0.19 U	0.23 U [0.22 U]
Aroclor-1221	mg/kg	0.23 UJ	0.20 UJ	0.33 UJ	0.21 UJ	0.21 U [0.21 U]	0.20 U	0.16 U	0.19 U	0.19 U	0.23 U [0.22 U]
Aroclor-1232	mg/kg	0.23 UJ	0.20 UJ	0.33 UJ	0.21 UJ	0.21 U [0.21 U]	0.20 U	0.16 U	0.19 U	0.19 U	0.23 U [0.22 U]
Aroclor-1242	mg/kg	0.74 J	0.31 J	0.82 J	0.35 J	0.38 [0.41]	1.1	1.2	1.5	0.99	3.6 [3.4]
Aroclor-1248	mg/kg	0.23 UJ	0.20 UJ	0.33 UJ	0.29 J	0.21 U [0.35]	0.20 U	0.16 U	0.19 U	0.29 J	0.23 U [0.22 U]
Aroclor-1254	mg/kg	0.17 J	0.15 J	0.23 J	0.16 J	0.12 J [0.21 J]	0.22	0.22	0.19 U	0.33	0.73 [0.61]
Aroclor-1260	mg/kg	0.23 UJ	0.20 UJ	0.33 UJ	0.21 UJ	0.21 U [0.21 U]	0.20 U	0.16 U	0.12 J	0.19 U	0.22 J [0.21 J]
Total PCBs	mg/kg	0.91 J	0.46 J	1.1 J	0.80 J	0.50 [0.97]	1.3	1.4	1.6	1.6	4.6 [4.2]
Miscellaneous											
Percent Solids	%	19.8	23.7	16.3	23.4	24.8 [25.7]	26	32.4	26.6	27.2	22.4 [22.4]

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Table N — Validated PCB Results for Sediment Samples Collected in Lake Allegan — Data Received in October 2009

Sample Name:		K17002	K17003	K17004	K17005	K17006	K17007	K17008	K17009	K17010	K17011
Sample Depth(cm):		10 - 12	12 - 14	14 - 16	16 - 18	18 - 20	20 - 25	25 - 30	30 - 35	35 - 40	40 - 25
Date Collected:		05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09	05/14/09
Location ID:	Units	ALG-6									
PCB Aroclors											
Aroclor-1016	mg/kg	0.19 U	0.38 U	0.48 U	0.71 U	0.89 U	1.7 U	5.4 U	9.3 U	0.92 U	0.17 U
Aroclor-1221	mg/kg	0.19 U	0.38 U	0.48 U	0.71 U	0.89 U	1.7 U	5.4 U	9.3 U	0.92 U	0.17 U
Aroclor-1232	mg/kg	0.19 U	0.38 U	0.48 U	0.71 U	0.89 U	1.7 U	5.4 U	9.3 U	0.92 U	0.17 U
Aroclor-1242	mg/kg	2.9	3.9	5.6	4.5	4.0	15	67	88	11	0.17 U
Aroclor-1248	mg/kg	0.19 U	0.38 U	0.48 U	2.4	3.3	1.7 U	5.4 U	9.3 U	0.92 U	0.15 J
Aroclor-1254	mg/kg	0.58	0.81	1.3	2.0	1.3	2.7	3.3 J	9.3 U	3.9	0.17 U
Aroclor-1260	mg/kg	0.17 J	0.25 J	0.30 J	0.41 J	0.89 U	1.7 U	5.4 U	9.3 U	0.92 U	0.24
Total PCBs	mg/kg	3.7	5.0	7.2	9.3	8.6	18	70	88	15	0.39 J
Miscellaneous											
Percent Solids	%	26.7	25.5	20.7	21.3	27.9	29.3	27.9	27.4	26.8	29.4

Sample Name:		K17012	K17013	K17014	K17015
Sample Depth(cm):		45 - 50	50 - 55	55 - 60	60 - 65
Date Collected:		05/14/09	05/14/09	05/14/09	05/14/09
Location ID:	Units	ALG-6	ALG-6	ALG-6	ALG-6
PCB Aroclors					
Aroclor-1016	mg/kg	0.39 U	0.16 U	0.13 UJ	0.12 U
Aroclor-1221	mg/kg	0.39 U	0.16 U	0.13 UJ	0.12 U
Aroclor-1232	mg/kg	0.39 U	0.16 U	0.13 UJ	0.12 U
Aroclor-1242	mg/kg	4.7	0.16 U	0.13 UJ	0.12 U
Aroclor-1248	mg/kg	0.39 U	0.16 U	0.13 UJ	0.12 U
Aroclor-1254	mg/kg	2.6	0.16 U	0.13 UJ	0.12 U
Aroclor-1260	mg/kg	0.39 U	0.11 J	0.13 UJ	0.12 U
Total PCBs	mg/kg	7.3	0.11 J	0.13 UJ	0.12 U
Miscellaneous					
Percent Solids	%	26.4	31.2	37	40

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Table N — Validated PCB Results for Sediment Samples Collected in Lake Allegan — Data Received in October 2009

Notes:

J - The compound was positively identified; however, the associated numerical value is an estimated concentration only.

U - The compound was analyzed for but not detected. The associated value is the compound quantitation limit.

UJ - The compound was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

Samples analyzed by TestAmerica Laboratories, Inc.

Duplicate results are in brackets.